

FIG. 1

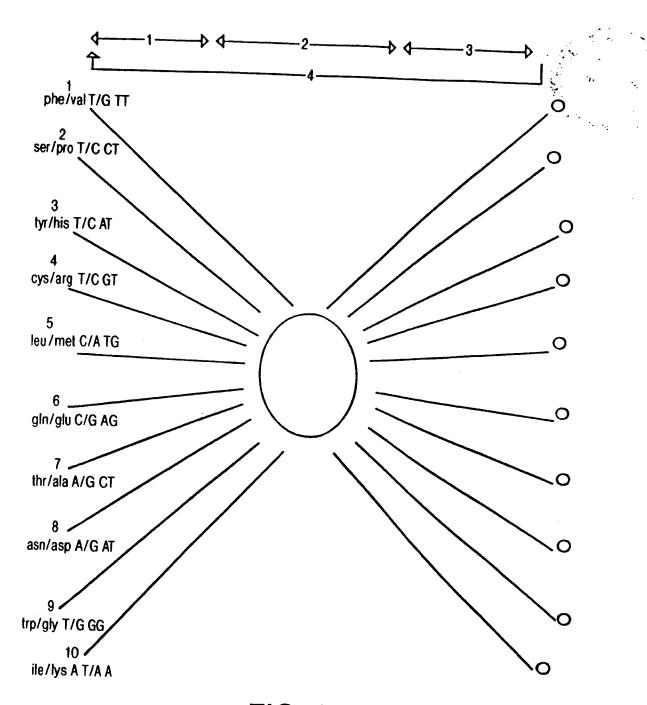
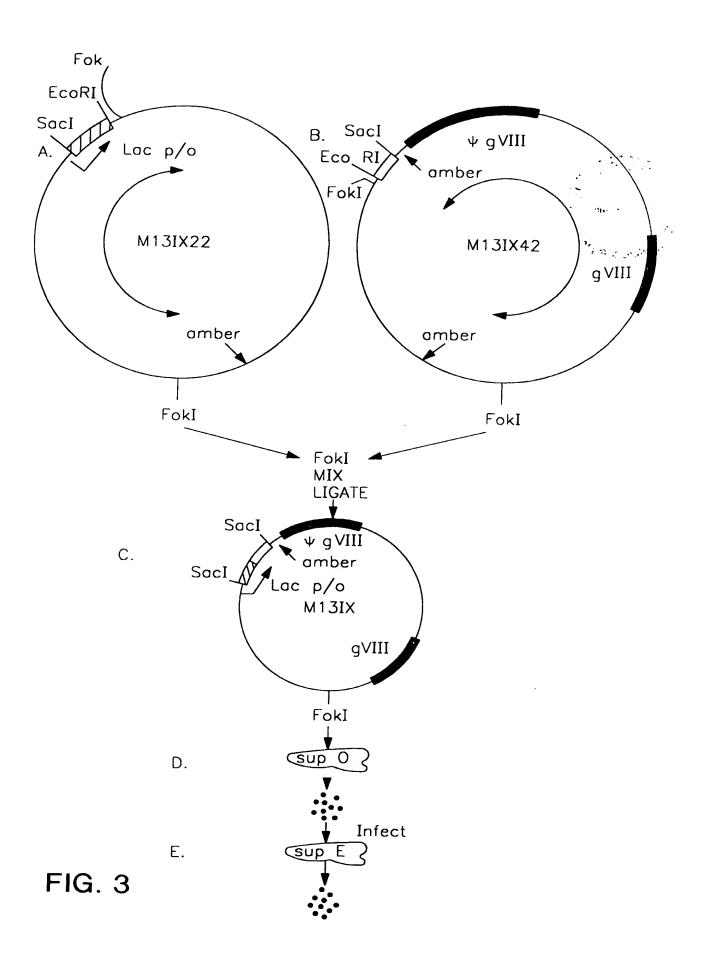


FIG. 2



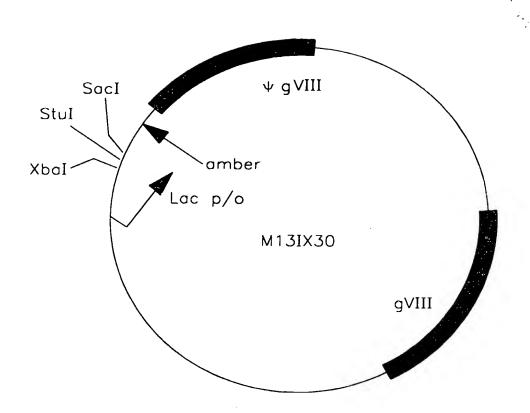


FIG. 4

		10 1 2	20 1 3	30 ı .	10 I =		
			G AATTGATG	CC ACCTTTTC	AG CTCGCGCCC	C AAATGAAAA	
						C TAAATCTAC	
						A CCGTACTT	
						G CTCTAAGCC	
						A TCCTGACCT	
30	1 TTGGAGTTT	G CTTCCGGTC	T GGTTCGCTT	T GAAGCTCGA	A TTAAAACGC	G ATATTTGAA	G 360
36	1 TCTTTCGGG	C TTCCTCTTA	A TCTTTTTGA	T GCAATCCGC	т ттссттстс	'A CTATAATAG	т 420
42	1 CAGGGTAAA	G ACCTGATTT	T TGATTTATG	G TCATTCTCG	T TTTCTGAAC	T GTTTAAAGC	A 480
						C TATCCAGTC	
54	1 AAACATTTT	A CTATTACCC	C CTCTGGCAA	A ACTTCTTT	G CAAAAGCCT	C TCGCTATTT	r 600
60:	l GGTTTTTATO	C GTCGTCTGG	r AAACGAGGG	T TATGATAGT	G TTGCTCTTA	C TATGCCTCGT	r 660
662	L AATTCCTTT	GGCGTTATG	T ATCTGCATT	A GTTGAATGT	G GTATTCCTA	A ATCTCAACTO	720
723	ATGAATCTTT	CTACCTGTA	A TAATGTTGT	r ccgttagtt	C GTTTTATTA	A CGTAGATTT	780
781	. TCTTCCCAAC	GTCCTGACTC	G GTATAATGA	G CCAGTTCTT	A AAATCGCATA	AGGTAATTCA	840
841	. CAATGATTAA	A AGTTGAAATT	AAACCATCT	C AAGCCCAAT	TACTACTCGT	TCTGGTGTTT	900
901	CTCGTCAGGG	CAAGCCTTAT	TCACTGAATO	G AGCAGCTTT	G TTACGTTGAT	TTGGGTAATG	960
961	AATATCCGGT	TCTTGTCAAG	ATTACTCTTC	ATGAAGGTC	GCCAGCCTAT	GCGCCTGGTC	1020
1021	TGTACACCGT	TCATCTGTCC	TCTTTCAAAC	TTGGTCAGTT	CGGTTCCCTT	ATGATTGACC	1080
						CACAATTTAT	
1141	CAGGCGATGA	TACAAATCTC	CGTTGTACTT	TGTTTCGCGC	TTGGTATAAT	CGCTGGGGGT	1200
1201	CAAAGATGAG	TGTTTTAGTG	TATTCTTTCG	CCTCTTTCGT	TTTAGGTTGG	TGCCTTCGTA	1260
1261	GTGGCATTAC	GTATTTTACC	CGTTTAATGG	AAACTTCCTC	ATGAAAAAGT	CTTTAGTCCT	1320
						CTGAGGGTGA	
1381	CGATCCCGCA	AAAGCGGCCT	ттаастссст	GCAAGCCTCA	GCGACCGAAT	ATATCGGTTA	1440
1441	TGCGTGGGCG	ATGGTTGTTG	TCATTGTCGG	CGCAACTATC	GGTATCAAGC	TGTTTAAGAA	1500
						GGAGCCTTTT	
						TGTTCCTTTC	
						AGAAAATTCA	
						TGAGGGTTGT	

FIG. 5A

1741	CTGTGGAATG	CTACAGGCGT	TGTAGTTTGT	ACTGGTGACG	AAACTCAGTG	TTACGGTACA	1800
1801	TGGGTTCCTA	TTGGGCTTGC	TATCCCTGAA	AATGAGGGTG	GTGGCTCTGA	GGGTGGCGGT	1860
1861	TCTGAGGGTG	GCGGTTCTGA	GGGTGGCGGT	ACTAAACCTC	CTGAGTACGG	TGATACACCT	1920
1921	ATTCCGGGCT	ATACTTATAT	CAACCCTCTC	GACGGCACTT	ATCCGCCTGG	TACTGAGCAA	1980
1981	AACCCCGCTA	ATCCTAATCC	TTCTCTTGAG	GAGTCTCAGC	CTCTTAATAC	TTTCATGTTT	2040
2041	CAGAATAATA	GGTTCCGAAA	TAGGCAGGGG	GCATTAACTG	TTTATACGGG	CACTGTTACT	2100
2101	CAAGGCACTG	ACCCCGTTAA	AACTTATTAC	CAGTACACTC	CTGTATCATC	AAAAGCCATG	2160
2161	TATGACGCTT	ACTGGAACGG	TAAATTCAGA	GACTGCGCTT	TCCATTCTGG	CTTTAATGAA	2220
2221	GATCCATTCG	TTTGTGAATA	TCAAGGCCAA	TCGTCTGACC	TGCCTCAACC	TCCTGTCAAT	2280
2281	GCTGGCGGCG	GCTCTGGTGG	TGGTTCTGGT	GGCGGCTCTG	AGGGTGGTGG	CTCTGAGGGT	2340
2341	GGCGGTTCTG	AGGGTGGCGG	CTCTGAGGGA	GGCGGTTCCG	GTGGTGGCTC	TGGTTCCGGT	2400
2401	GATTTTGATT	ATGAAAAGAT	GGCAAACGCT	AATAAGGGGG	CTATGACCGA	AAATGCCGAT	2460
2461	GAAAACGCGC	TACAGTCTGA	CGCTAAAGGC	AAACTTGATT	CTGTCGCTAC	TGATTACGGT	2520
2521	GCTGCTATCG	ATGGTTTCAT	TGGTGACGTT	TCCGGCCTTG	CTAATGGTAA	TGGTGCTACT	2580
2581	GGTGATTTTG	CTGGCTCTAA	TTCCCAAATG	GCTCAAGTCG	GTGACGGTGA	TAATTCACCT	2640
2641	TTAATGAATA	ATTTCCGTCA	ATATTTACCT	TCCCTCCCTC	AATCGGTTGA	ATGTCGCCCT	2700
2701	TTTGTCTTTA	GCGCTGGTAA	ACCATATGAA	TTTTCTATTG	ATTGTGACAA	ААТАААСТТА	2760
2761	TTCCGTGGTG	TCTTTGCGTT	TCTTTTATAT	GTTGCCACCT	TTATGTATGT	ATTTTCTACG	2820
2821	TTTGCTAACA	TACTGCGTAA	TAAGGAGTCT	TAATCATGCC	AGTTCTTTTG	GGTATTCCGT	2880
2881	TATTATTGCG	TTTCCTCGGT	TTCCTTCTGG	TAACTTTGTT	CGGCTATCTG	CTTACTTTTC	2940
2941	TTAAAAAGGG	CTTCGGTAAG	ATAGCTATTG	CTATTTCATT	GTTTCTTGCT	CTTATTATTG	3000
3001	GGCTTAACTC	AATTCTTGTG	GGTTATCTCT	CTGATATTAG	CGCTCAATTA	CCCTCTGACT	3060
3061	TTGTTCAGGG	TGTTCAGTTA	ATTCTCCCGT	CTAATGCGCT	TCCCTGTTTT	TATGTTATTC	3120
3121	TCTCTGTAAA	GGCTGCTATT	TTCATTTTTG	ACGTTAAACA	AAAAATCGTT	TCTTATTTGG	3180
3181	ATTGGGATAA	ATAATATGGC	TGTTTATTT	GTAACTGGCA	AATTAGGCTC	TGGAAAGACG	3240
3241	CTCGTTAGCG	TTGGTAAGAT	TCAGGATAAA	ATTGTAGCTG	GGTGCAAAAT	AGCAACTAAT	3300
3301	CTTGATTTAA	GGCTTCAAAA	CCTCCCGCAA	GTCGGGAGGT	TCGCTAAAAC	GCCTCGCGTT	3360
3361	CTTAGAATAC	CGGATAAGCC	TTCTATATCT	GATTTGCTTG	CTATTGGGCG	CGGTAATGAT	3420
3421	TCCTACGATG	ААААТАААА	CGGCTTGCTT	GTTCTCGATG	AGTGCGGTAC	TTGGTTTAAT	3480
3481	ACCCGTTCTT	GGAATGATAA	GGAAAGACAG	CCGATTATTG	ATTGGTTTCT	ACATGCTCGT	3540
3541	AAATTAGGAT	GGGATATTAT	CTTCCTTGTT	CAGGACTTAT	CTATTGTTGA	TAAACAGGCG	3600
3601	CGTTCTGCAT	TAGCTGAACA	TGTTGTTTAT	TGTCGTCGTC	TGGACAGAAT	TACTTTACCT	3660

FIG. 5B

3661	TTTGTCGGTA	CTTTATATTC	TCTTATTACT	GGCTCGAAAA	TGCCTCTGCC	TAAATTACAT	3720
3721	GTTGGCGTTG	TTAAATATGG	CGATTCTCAA	TTAAGCCCTA	CTGTTGAGCG	TTGGCTTTAT	3780
3781	ACTGGTAAGA	ATTTGTATAA	CGCATATGAT	ACTAAACAGG	CTTTTTCTAG	TAATTATGAT	3840
3841	TCCGGTGTTT	ATTCTTATTT	AACGCCTTAT	TTATCACACG	GTCGGTATTT	CAAACCATTA	3900
3901	AATTTAGGTC	AGAAGATGAA	GCTTACTAAA	ATATATTTGA	AAAAGTTTTC	ACGCGTTCTT	3960
3961	TGTCTTGCGA	TTGGATTTGC	ATCAGCATTT	ACATATAGTT	ATATAACCCA	ACCTAAGCCG	4020
4021	GAGGTTAAAA	AGGTAGTCTC	TCAGACCTAT	GATTTTGATA	AATTCACTAT	TGACTCTTCT	4.080
4081	CAGCGTCTTA	ATCTAAGCTA	TCGCTATGTT	TTCAAGGATT	CTAAGGGAAA	ATTAATTAAT	4140
4141	AGCGACGATT	TACAGAAGCA	AGGTTATTCA	CTCACATATA	TTGATTTATG	TACTGTTTCC	4200
4201	ATTAAAAAGG	TAATTCAAAT	GAAATTGTTA	AATGTAATTA	ATTTTGTTTT	CTTGATGTTT	4260
4261	GTTTCATCAT	CTTCTTTTGC	TCAGGTAATT	GAAATGAATA	ATTCGCCTCT	GCGCGATTTT	4320
4321	GTAACTTGGT	ATTCAAAGCA	ATCAGGCGAA	TCCGTTATTG	TTTCTCCCGA	TGTAAAAGGT	4380
4381	ACTGTTACTG	TATATTCATC	TGACGTTAAA	CCTGAAAATC	TACGCAATTT	CTTTATTTCT	4440
4441	GTTTTACGTG	CTAATAATTT	TGATATGGTT	GGTTCAATTC	CTTCCATTAT	TTAGAAGTAT	4500
4501	AATCCAAACA	ATCAGGATTA	TATTGATGAA	TTGCCATCAT	CTGATAATCA	GGAATATGAT	4560
4561	GATAATTCCG	CTCCTTCTGG	TGGTTTCTTT	GTTCCGCAAA	ATGATAATGT	TACTCAAACT	4620
4621	TTTAAAATTA	ATAACGTTCG	GGCAAAGGAT	TTAATACGAG	TTGTCGAATT	GTTTGTAAAG	4680
4601	TCTAATACTT	CTAAATCCTC	AAATGTATTA	TCTATTGACG	GCTCTAATCT	ATTAGTTGTT	4740
4741	AGTGCACCTA	AAGATATTTT	AGATAACCTT	CCTCAATTCC	TTTCTACTGT	TGATTTGCCA	4800
4801	ACTGACCAGA	TATTGATTGA	GGGTTTGATA	TTTGAGGTTC	AGCAAGGTGA	TGCTTTAGAT	4860
4861	TTTTCATTTG	CTGCTGGCTC	TCAGCGTGGC	ACTGTTGCAG	GCGGTGTTAA	TACTGACCGC	4920
49210	CTCACCTCTG 1	TTTATCTTC T	GCTGGTGGT T	CGTTCGGTA T	TTTTAATGG (GATGTTTTA 4	980
4981	GGGCTATCAG	TTCGCGCATT	AAAGACTAAT	AGCCATTCAA	AAATATTGTC	TGTGCCACGT	5040
5041	ATTCTTACGC	TTTCAGGTCA	GAAGGGTTCT	ATCTCTGTTG	GCCAGAATGT	CCCTTTTATT	5100
5101	ACTGGTCGTG	TGACTGGTGA	ATCTGCCAAT	GTAAATAATC	CATTTCAGAC	GATTGAGCGT	5160
5161	CAAAATGTAG	GTATTTCCAT	GAGCGTTTTT	CCTGTTGCAA	TGGCTGGCGG	ТААТАТТСТТ	5220
5221	CTGGATATTA	CCAGCAAGGC	CGATAGTTTG	AGTTCTTCTA	CTCAGGCAAG	TGATGTTATT	5280
5281	АСТААТСААА	GAAGTATTGC	TACAACGGTT	AATTTGCGTG	ATGGACAGAC	TCTTTTACTC	5340
5341	GGTGGCCTCA	CTGATTATAA	AAACACTTCT	CAAGATTCTG	GCGTACCGTT	CCTGTCTAAA	5400
5401	АТСССТТТАА	тсссстсст	GTTTAGCTCC	CGCTCTGATT	CCAACGAGGA	AAGCACGTTA	5460
5461	TACGTGCTCG	TCAAAGCAAC	CATAGTACGC	GCCCTGTAGC	GGCGCATTAA	GCGCGGCGGG	5520
5521	TGTGGTGGTT	ACGCGCAGCG	TGACCGCTAC	ACTTGCCAGC	GCCCTAGCGC	ССССТССТТТ	5580

FIG. 5C

5581	CGCTTTCTTC	CCTTCCTTTC	TCGCCACGTT	CGCCGGCTTT	CCCCGTCAAG	CTCTAAATCG	5640
5641	GGGGCTCCCT	TTAGGGTTCC	GATTTAGTGC	TTTACGGCAC	CTCGACCCCA	AAAAACTTGA	5700
5701	TTTGGGTGAT	GGTTCACGTA	GTGGGCCATC	GCCCTGATAG	ACGGTTTTTC	GCCCTTTGAC	5760
5761	GTTGGAGTCC	ACGTTCTTTA	ATAGTGGACT	CTTGTTCCAA	ACTGGAACAA	CACTCAACCC	5820
5821	TATCTCGGGC	TATTCTTTTG	ATTTATAAGG	GATTTTGCCG	ATTTCGGAAC	CACCATCAAA	5880
5881	CAGGATTTTC	GCCTGCTGGG	GCAAACCAGC	GTGGACCGCT	TGCTGCAACT	CTCTCAGGGC	5940
5941	CAGGCGGTGA	AGGGCAATCA	GCTGTTGCCC	GTCTCGCTGG	TGAAAAGAAA	AACCACCCTG	6000
6001	GCGCCCAATA	CGCAAACCGC	CTCTCCCCGC	GCGTTGGCCG	ATTCATTAAT	GCAGCTGGCA	6060
6061	CGACAGGTTT	CCCGACTGGA	AAGCGGGCAG	TGAGCGCAAC	GCAATTAATG	TGAGTTAGCT	6120
6121	CACTCATTAG	GCACCCCAGG	CTTTACACTT	TATGCTTCCG	GCTCGTATGT	TGTGTGGAAT	6180
6181	TGTGAGCGGA	TAACAATTTC	ACACAGGAAA	CAGCTATGAC	CAGGATGTAC	GAATTCGCAG	6240
6241	GTAGGAGAGC	TCGGCGGATC	CTAGGCTGAA	GGCGATGACC	CTGCTAAGGC	TGCATTCAAT	6300
6301	AGTTTACAGG	CAAGTGCTAC	TGAGTACATT	GGCTACGCTT	GGGCTATGGT	AGTAGTTATA	6360
6361	GTTGGTGCTA	CCATAGGGAT	TAAATTATTC	AAAAAGTTTA	CGAGCAAGGC	TTCTTAACCA	6420
6421	GCTGGCGTAA	TAGCGAAGAG	GCCCGCACCG	ATCGCCCTTC	CCAACAGTTG	CGCAGCCTGA	6480
6481	ATGGCGAATG	GCGCTTTGCC	TGGTTTCCGG	CACCAGAAGC	GGTGCCGGAA	AGCTGGCTGG	6540
6541	AGTGCGATCT	TCCTGAGGCC	GATACGGTCG	TCGTCCCCTC	AAACTGGCAG	ATGCACGGTT	6600
6601	ACGATGCGCC	CATCTACACC	AACGTAACCT	ATCCCATTAC	GGTCAATCCG	CCGTTTGTTC	6660
6661	CCACGGAGAA	TCCGACGGGT	TGTTACTCGC	TCACATTTAA	TGTTGATGAA	AGCTGGCTAC	6720
6721	AGGAAGGCCA	GACGCGAATT	ATTTTTGATG	GCGTTCCTAT	TGGTTAAAAA	ATGAGCTGAT	6780
6781	TTAACAAAAA	TTTAACGCGA	ATTTTAACAA	AATATTAACG	TTTACAATTT	AAATATTTGC	6840
6841	TTATACAATC	TTCCTGTTTT	TGGGGCTTTT	CTGATTATCA	ACCGGGGTAC	ATATGATTGA	6900
6901	CATGCTAGTT	TTACGATTAC	CGTTCATCGA	TTCTCTTGTT	TGCTCCAGAC	TCTCAGGCAA	6960
6961	TGACCTGATA	GCCTTTGTAG	ATCTCTCAAA	AATAGCTACC	CTCTCCGGCA	TTAATTTATC	7020
7021	AGCTAGAACG	GTTGAATATC	ATATTGATGG	TGATTTGACT	GTCTCCGGCC	TTTCTCACCC	7080
7081	TTTTGAATCT	TTACCTACAC	ATTACTCAGG	CATTGCATTT	AAAATATATG	AGGGTTCTAA	7140
7141	AAATTTTTAT	CCTTGCGTTG	AAATAAAGGC	TTCTCCCGCA	AAAGTATTAC	AGGGTCATAA	7200
7201	TGTTTTTGGT	ACAACCGATT	TAGCTTTATG	CTCTGAGGCT	TTATTGCTTA	ATTTTGCTAA	7260
7261	TTCTTTGCCT	TGCCTGTATG	ATTTATTGGA		1 50	ı 60	7294

FIG. 5D

1	1 10 AATGCTACTA	i 20 CTATTAGTAG	I 30 AATTGATGCC	ACCTTTTCAG	CTCGCGCCCC	00 AAATGAAAAT	60
61	ATAGCTAAAC	AGGTTATTGA	CCATTTGCGA	AATGTATCTA	ATGGTCAAAC	ТАААТСТАСТ	120
121	CGTTCGCAGA	ATTGGGAATC	AACTGTTACA	TGGAATGAAA	CTTCCAGACA	CCGTACTTTA	180
181	GTTGCATATT	TAAAACATGT	TGAGCTACAG	CACCAGATTC	AGCAATTAAG	CTCTAAGCCA	240.
241	TCTGCAAAAA	TGACCTCTTA	TCAAAAGGAG	CAATTAAAGG	TACTCTCTAA	TCCTGACCTG	300
301	TTGGAGTTTG	CTTCCGGTCT	GGTTCGCTTT	GAAGCTCGAA	TTAAAACGCG	ATATTTGAAG	360
361	TCTTTCGGGC	TTCCTCTTAA	TCTTTTTGAT	GCAATCCGCT	TTGCTTCTGA	CTATAATAGT	420
421	CAGGGTAAAG	ACCTGATTTT	TGATTTATGG	TCATTCTCGT	TTTCTGAACT	GTTTAAAGCA	480
481	TTTGAGGGGG	ATTCAATGAA	TATTTATGAC	GATTCCGCAG	TATTGGACGC	TATCCAGTCT	540
541	AAACATTTTA	CTATTACCCC	CTCTGGCAAA	ACTTCTTTTG	CAAAAGCCTC	TCGCTATTTT	600
601	GGTTTTTATC	GTCGTCTGGT	AAACGAGGGT	TATGATAGTG	TTGCTCTTAC	TATGCCTCGT	660
661	AATTCCTTTT	GGCGTTATGT	ATCTGCATTA	GTTGAATGTG	GTATTCCTAA	ATCTCAACTG	720
721	ATGAATCTTT	CTACCTGTAA	TAATGTTGTT	CCGTTAGTTC	GTTTTATTAA	CGTAGATTTT	780
781	TCTTCCCAAC	GTCCTGACTG	GTATAATGAG	CCAGTTCTTA	AAATCGCATA	AGGTAATTCA	840
841	CAATGATTAA	AGTTGAAATT	AAACCATCTC	AAGCCCAATT	TACTACTCGT	TCTGGTGTTT	900
901	CTCGTCAGGG	CAAGCCTTAT	TCACTGAATG	AGCAGCTTTG	TTACGTTGAT	TTGGGTAATG	960
961	AATATCCGGT	TCTTGTCAAG	ATTACTCTTG	ATGAAGGTCA	GCCAGCCTAT	GCGCCTGGTC	1020
021	TGTACACCGT	TCATCTGTCC	TCTTTCAAAG	TTGGTCAGTT	CGGTTCCCTT	ATGATTGACC	1080
081	GTCTGCGCCT	CGTTCCGGCT	AAGTAACATG	GAGCAGGTCG	CGGATTTCGA	CACAATTTAT	1140
141	CAGGCGATGA	TACAAATCTC	CGTTGTACTT	TGTTTCGCGC	TTGGTATAAT	CGCTGGGGGT	1200
201	CAAAGATGAG	TGTTTTAGTG	TATTCTTTCG	CCTCTTTCGT	TTTAGGTTGG	TGCCTTCGTA	1260
261	GTGGCATTAC	GTATTTTACC	CGTTTAATGG	AAACTTCCTC	ATGAAAAAGT	CTTTAGTCCT	1320
.321	CAAAGCCTCT	GTAGCCGTTG	CTACCCTCGT	TCCGATGCTG	TCTTTCGCTG	CTGAGGGTGA	1380
381	CGATCCCGCA	AAAGCGGCCT	TTAACTCCCT	GCAAGCCTCA	GCGACCGAAT	ATATCGGTTA	1440
441	TGCGTGGGCG	ATGGTTGTTG	TCATTGTCGG	CGCAACTATC	GGTATCAAGC	TGTTTAAGAA	1500
501	ATTCACCTCG	AAAGCAAGCT	GATAAACCGA	TACAATTAAA	GGCTCCTTTT	GGAGCCTTTT	1560
561	TTTTTGGAGA	TTTTCAACGT	GAAAAAATTA	TTATTCGCAA	TTCCTTTAGT	TGTTCCTTTC	1620
1621	TATTCTCACT	CCGCTGAAAC	TGTTGAAAGT	TGTTTAGCAA	AACCCCATAC	AGAAAATTCA	1680
		TCTGGAAAGA					
		CTACAGGCGT					
1801	TGGGTTCCTA	TTGGGCTTGC	TATCCCTGAA	AATGAGGGTG	GTGGCTCTGA	GGGTGGCGGT	1860

FIG. 6A

1861	TCTGAGGGTG	GCGGTTCTGA	GGGTGGCGGT	ACTAAACCTC	CTGAGTACGG	TGATACACCT	1920
1921	ATTCCGGGCT	ATACTTATAT	CAACCCTCTC	GACGGCACTT	ATCCGCCTGG	TACTGAGCAA	1980
1981	AACCCCGCTA	ATCCTAATCC	TTCTCTTGAG	GAGTCTCAGC	CTCTTAATAC	TTTCATGTTT	2040
2041	CAGAATAATA	GGTTCCGAAA	TAGGCAGGGG	GCATTAACTG	TTTATACGGG	CACTGTTACT	2100
2101	CAAGGCACTG	ACCCCGTTAA	AACTTATTAC	CAGTACACTC	CTGTATCATC	AAAAGCCATG	2160
2161	TATGACGCTT	ACTGGAACGG	TAAATTCAGA	GACTGCGCTT	TCCATTCTGG	CTTTAATGAA	2220
2221	GATCCATTCG	TTTGTGAATA	TCAAGGCCAA	TCGTCTGACC	TGCCTCAACC	TCCTGTCAAT	2280
2281	GCTGGCGGCG	GCTCTGGTGG	TGGTTCTGGT	GGCGGCTCTG	AGGGTGGTGG	CTCTGAGGGT	2340
2341	GGCGGTTCTG	AGGGTGGCGG	CTCTGAGGGA	GGCGGTTCCG	GTGGTGGCTC	TGGTTCCGGT	2400
2401	GATTTTGATT	ATGAAAAGAT	GGCAAACGCT	AATAAGGGGG	CTATGACCGA	AAATGCCGAT	2460
2461	GAAAACGCGC	TACAGTCTGA	CGCTAAAGGC	AAACTTGATT	CTGTCGCTAC	TGATTACGGT	2520
2521	GCTGCTATCG	ATGGTTTCAT	TGGTGACGTT	TCCGGCCTTG	CTAATGGTAA	TGGTGCTACT	2580
2581	GGTGATTTTG	CTGGCTCTAA	TTCCCAAATG	GCTCAAGTCG	GTGACGGTGA	TAATTCACCT	2640
2641	TTAATGAATA	ATTTCCGTCA	ATATTTACCT	TCCCTCCCTC	AATCGGTTGA	ATGTCGCCCT	2700
2701	TTTGTCTTTA	GCGCTGGTAA	ACCATATGAA	TTTTCTATTG	ATTGTGACAA	AATAAACTTA	2760
2761	TTCCGTGGTG	TCTTTGCGTT	TCTTTTATAT	GTTGCCACCT	TTATGTATGT	ATTTTCTACG	2820
2821	TTTGCTAACA	TACTGCGTAA	TAAGGAGTCT	TAATCATGCC	AGTTCTTTTG	GGTATTCCGT	2880
2881	TATTATTGCG	TTTCCTCGGT	TTCCTTCTGG	TAACTTTGTT	CGGCTATCTG	CTTACTTTTC	2940
2941	TTAAAAAGGG	CTTCGGTAAG	ATAGCTATTG	CTATTTCATT	GTTTCTTGCT	CTTATTATTG	3000
3001	GGCTTAACTC	AATTCTTGTG	GGTTATCTCT	CTGATATTAG	CGCTCAATTA	CCCTCTGACT	3060
3061	TTGTTCAGGG	TGTTCAGTTA	ATTCTCCCGT	CTAATGCGCT	TCCCTGTTTT	TATGTTATTC	3120
3121	TCTCTGTAAA	GGCTGCTATT	TTCATTTTTG	ACGTTAAACA	AAAAATCGTT	TCTTATTTGG	3180
3181	ATTGGGATAA	ATAATATGGC	TGTTTATTT	GTAACTGGCA	AATTAGGCTC	TGGAAAGACG	3240
3241	CTCGTTAGCG	TTGGTAAGAT	TTAGGATAAA	ATTGTAGCTG	GGTGCAAAAT	AGCAACTAAT	3300
3301	CTTGATTTAA	GGCTTCAAAA	CCTCCCGCAA	GTCGGGAGGT	TCGCTAAAAC	GCCTCGCGTT	3360
3361	CTTAGAATAC	CGGATAAGCC	TTCTATATCT	GATTTGCTTG	CTATTGGGCG	CGGTAATGAT	3420
3421	TCCTACGATG	ААААТАААА	CGGCTTGCTT	GTTCTCGATG	AGTGCGGTAC	TTGGTTTAAT	3480
3481	ACCCGTTCTT	GGAATGATAA	GGAAAGACAG	CCGATTATTG	ATTGGTTTCT	ACATGCTCGT	3540
3541	AAATTAGGAT	GGGATATTAT	CTTCCTTGTT	CAGGACTTAT	CTATTGTTGA	TAAACAGGCG	3600
3601	CGTTCTGCAT	TAGCTGAACA	TGTTGTTTAT	тстсстсстс	TGGACAGAAT	TACTTTACCT	3660
3661	TTTGTCGGTA	CTTTATATTC	тсттаттаст	GGCTCGAAAA	TGCCTCTGCC	таааттасат	3720
3723	GTTGGCGTTG	TTAAATATGG	G CGATTCTCAA	TTAAGCCCTA	CTGTTGAGC	TTGGCTTTAT	3780

FIG. 6B

			CGCATATGAT				
			AACGCCTTAT				
			ATTAACTAAA				
			ATCAGCATTT				
			TCAGACCTAT				
			TCGCTATGTT				
			AGGTTATTCA			4.35	
4201	ATTAAAAAAG	GTAATTCAAA	TGAAATTGTT	AAATGTAATT	AATTTTGTTT	TCTTGATGTT	4260
			CTCAGGTAAT			<u>:</u> :	
4321	TGTAACTTGG	TATTCAAAGC	AATCAGGCGA	ATCCGTTATT	GTTTCTCCCG	ATGTAAAAGG	4380
4381	TACTGTTACT	GTATATTCAT	CTGACGTTAA	ACCTGAAAAT	CTACGCAATT	TCTTTATTTC	4440
			TTGATATGGT				
4501	TAATCCAAAC	AATCAGGATT	ATATTGATGA	ATTGCCATCA	TCTGATAATC	AGGAATATGA	4560
4561	TGATAATTCC	GCTCCTTCTG	GTGGTTTCTT	TGTTCCGCAA	AATGATAATG	TTACTCAAAC	4620
4621	TTTAAAATT	AATAACGTTC	GGGCAAAGGA	TTTAATACGA	GTTGTCGAAT	TGTTTGTAAA	4680
4681	GTCTAATACT	TCTAAATCCT	CAAATGTATT	ATCTATTGAC	GGCTCTAATC	TATTAGTTGT	4740
4741	TAGTGCACCT	AAAGATATTT	TAGATAACCT	TCCTCAATTC	CTTTCTACTG	TTGATTTGCC	4800
4801	AACTGACCAG	ATATTGATTG	AGGGTTTGAT	ATTTGAGGTT	CAGCAAGGTG	ATGCTTTAGA	4860
4861	TTTTTCATTT	GCTGCTGGCT	CTCAGCGTGG	CACTGTTGCA	GGCĠGTGTTA	ATACTGACCG	4920
4921	CCTCACCTCT	GTTTTATCTT	CTGCTGGTGG	TTCGTTCGGT	ATTTTTAATG	GCGATGTTTT	4980
4981	AGGGCTATCA	GTTCGCGCAT	TAAAGACTAA	TAGCCATTCA	AAAATATTGT	CTGTGCCACG	5040
5041	TATTCTTACG	CTTTCAGGTC	AGAAGGGTTC	TATCTCTGTT	GGCCAGAATG	TCCCTTTTAT	5100
5101	TACTGGTCGT	GTGACTGGTG	AATCTGCCAA	TGTAAATAAT	CCATTTCAGA	CGATTGAGCG	5160
5161	TCAAAATGTA	GGTATTTCCA	TGAGCGTTTT	TCCTGTTGCA	ATGGCTGGCG	GTAATATTGT	5220
5221	TCTGGATATT	ACCAGCAAGG	CCGATAGTTT	GAGTTCTTCT	ACTCAGGCAA	GTGATGTTAT	5280
5281	TACTAATCAA	AGAAGTATTG	CTACAACGGT	TAATTTGCGT	GATGGACAGA	СТСТТТТАСТ	5340
5341	CGGTGGCCTC	ACTGATTATA	AAAACACTTC	TCAAGATTCT	GGCGTACCGT	TCCTGTCTAA	5400
5401	AATCCCTTTA	ATCGGCCTCC	TGTTTAGCTC	CCGCTCTGAT	TCCAACGAGG	AAAGCACGTT	5460
5461	ATACGTGCTC	GTCAAAGCAA	CCATAGTACG	CGCCCTGTAG	CGGCGCATTA	AGCGCGGCGG	5520
5521	GTGTGGTGGT	TACGCGCAGC	GTGACCGCTA	CACTTGCCAG	CGCCCTAGCG	CCCGCTCCTT	5580
5581	TCGCTTTCTT	CCCTTCCTTT	CTCGCCACGT	TCGCCGGCTT	TCCCCGTCAA	GCTCTAAATC	5640
5641	GGGGGCTCCC	TTTAGGGTTC	CGATTTAGTG	CTTTACGGCA	CCTCGACCCC	AAAAAACTTG	5700

FIG. 6C

			AGTGGGCCAT				
5761	CGTTGGAGT	CACGTTCTT	AATAGTGGAC	TCTTGTTCC	AACTGGAACA	ACACTCAACC	5820
5821	CTATCTCGGC	G СТАТТСТТТТ	GATTTATAAG	GGATTTTGCC	GATTTCGGAA	CCACCATCAA	5880
5881	ACAGGATTT	CGCCTGCTGG	GGCAAACCÁG	CGTGGACCGC	TTGCTGCAAC	TCTCTCAGGG	5940
5941	CCAGGCGGTG	AAGGGCAATC	AGCTGTTGCC	ССТСТСССТС	GTGAAAAGAA	AAACCACCCT	6000
6001	GGCGCCCAAT	' ACGCAAACCG	CCTCTCCCCG	CGCGTTGGCC	GATTCATTAA	TGCAGCTGGC	6060
6061	ACGACAGGTT	TCCCGACTGG	AAAGCGGGCA	GTGAGCGCAA	CGCAATTAAT	GTGAGTTAGC	6120
6121	TCACTCATTA	GGCACCCCAG	GCTTTACACT	TTATGCTTCC	GGCTCGTATG	TTGTGTGGAA	6130
6181	TTGTGAGCGG	ATAACAATTT	CACACGCCAA	GGAGACAGTC	ATAATGAAAT	ACCTATTGCC	6240
6241	TACGGCAGCC	GCTGGATTGT	TATTACTCGC	TGCCCAACCA	GCCATGGCCG	AGCTCGTGAT	6300
6301	GACCCAGACT	CCAGAATTCC	ATCCGGAATG	AGTGTTAATT	CTAGAACGCG	TAAGCTTGGC	6360
6361	ACTGGCCGTC	GTTTTACAAC	GTCGTGACTG	GGAAAACCCT	GGCGTTACCC	AACTTAATCG	6420
6421	CCTTGCAGCA	CACCCCCTT	TCGCCAGCTG	GCGTAATAGC	GAAGAGGCCC	GCACCGATCG	6480
6481	CCCTTCCCAA	CAGTTGCGCA	GCCTGAATGG	CGAATGGCGC	TTTGCCTGGT	TTCCGGCACC	6540
6541	AGAAGCGGTG	CCGGAAAGCT	GGCTGGAGTG	CGATCTTCCT	GAGGCCGATA	CGGTCGTCGT	6600
6601	CCCCTCAAAC	TGGCAGATGC	ACGGTTACGA	TGCGCCCATC	TACACCAACG	ТААССТАТСС	6660
6661	CATTACGGTC	AATCCGCCGT	TTGTTCCCAC	GGAGAATCCG	ACGGGTTGTT	ACTCGCTCAC	6720
6721	ATTTAATGTT	GATGAAAGCT	GGCTACAGGA	AGGCCAGACG	CGAATTATTT	TTGATGGCGT	6780
6781	TCCTATTGGT	TAAAAAATGA	GCTGATTTAA	САААААТТТА	ACGCGAATTT	ТААСААААТА	6840
6841	TTAACGTTTA	СААТТТАААТ	ATTTGCTTAT	ACAATCTTCC	TGTTTTTGGG	GCTTTTCTGA	6900
6901	TTATCAACCG	GGGTACATAT	GATTGACATG	CTAGTTTTAC	GATTACCGTT	CATCGATTCT	6960
6961	CTTGTTTGCT	CCAGACTCTC	AGGCAATGAC	CTGATAGCCT	TTGTAGATCT	СТСАААААТА	7020
7021	GCTACCCTCT	CCGGCATTAA	TTTATCAGCT	AGAACGGTTG	AATATCATAT	TGATGGTGAT	7080
7081	TTGACTGTCT	CCGGCCTTTC	TCACCCTTTT	GAATCTTTAC	СТАСАСАТТА	CTCAGGCATT	7140
7141	GCATTTAAAA	TATATGAGGG	ТТСТАААААТ	TTTTATCCTT	GCGTTGAAAT	AAAGGCTTCT	7200
			TCATAATGTT				
	GAGGCTTTAT	TGCTTAATTT	TGCTAATTCT				
	1 10	1 20	1 30	1 40	1 50	1 60	

FIG. 6D

) 1 3	0 1 4	0 1 50) 1 60)
					G CTCGCGCCCC	AAATGAAAAT	r 60
			•		A ATGGTCAAAC		, .
					A CTTCCAGACA	• `	
181	GTTGCATAT	TAAAACATG	TGAGCTACAC	G CACCAGATTO	CAGCAATTAAC	CTCTAAGCCA	240
					G TACTCTCTAA		
					A TTAAAACGCG		
361	TCTTTCGGG	TTCCTCTTAA	TCTTTTTGAT	GCAATCCGCT	TTGCTTCTGA	CTATAATAGT	420
421	CAGGGTAAAC	ACCTGATTT	TGATTTATGG	TCATTCTCGT	TTTCTGAACT	GTTTAAAGCA	480
481	TTTGAGGGG	ATTCAATGAA	TATTTATGAC	GATTCCGCAG	TATTGGACGC	TATCCAGTCT	540
541	AAACATTTTA	CTATTACCCC	CTCTGGCAAA	ACTTCTTTTC	CAAAAGCCTC	TCGCTATTT	600
601	GGTTTTTATC	GTCGTCTGGT	AAACGAGGGT	TATGATAGTG	TTGCTCTTAC	TATGCCTCGT	660
661	AATTCCTTTT	GGCGTTATGT	ATCTGCATTA	GTTGAATGTG	GTATTCCTAA	ATCTCAACTG	720
721	ATGAATCTTT	CTACCTGTAA	TAATGTTGTT	CCGTTAGTTC	GTTTTATTAA	CGTAGATTTT	780
781	TCTTCCCAAC	GTCCTGACTG	GTATAATGAG	CCAGTTCTTA	AAATCGCATA	AGGTAATTCA	840
841	CAATGATTAA	AGTTGAAATT	AAACCATCTC	AAGCCCAATT	TACTACTCGT	TCTGGTGTTT	900
901	CTCGTCAGGG	CAAGCCTTAT	TCACTGAATG	AGCAGCTTTG	TTACGTTGAT	TTGGGTAATG	960
961	AATATCCGGT	TCTTGTCAAG	ATTACTCTTG	ATGAAGGTCA	GCCAGCCTAT	GCGCCTGGTC	1020
1021	TGTACACCGT	TCATCTGTCC	TCTTTCAAAG	TTGGTCAGTT	CGGTTCCCTT	ATGATTGACC	1080
1081	GTCTGCGCCT	CGTTCCGGCT	AAGTAACATG	GAGCAGGTCG	CGGATTTCGA	CACAATTTAT	1140
1141	CAGGCGATGA	TACAAATCTC	CGTTGTACTT	TGTTTCGCGC	TTGGTATAAT	CGCTGGGGGT	1200
1201	CAAAGATGAG	TGTTTTAGTG	TATTCTTTCG	CCTCTTTCGT	TTTAGGTTGG	TGCCTTCGTA	1260
1261	GTGGCATTAC	GTATTTTACC	CGTTTAATGG	AAACTTCCTC	ATGAAAAAGT	CTTTAGTCCT	1320
1321	CAAAGCCTCT	GTAGCCGTTG	CTACCCTCGT	TCCGATGCTG	TCTTTCGCTG	CTGAGGGTGA	1380
1381	CGATCCCGCA	AAAGCGGCCT	TTAACTCCCT	GCAAGCCTCA	GCGACCGAAT	ATATCGGTTA	1440
1441	TGCGTGGGCG	ATGGTTGTTG	TCATTGTCGG	CGCAACTATC	GGTATCAAGC	TGTTTAAGAA	1500
1501	ATTCACCTCG	AAAGCAAGCT	GATAAACCGA	TACAATTAAA	GGCTCCTTTT	GGAGCCTTTT	1560
1561	TTTTTGGAGA	TTTTCAACGT	GAAAAAATTA	TTATTCGCAA	TTCCTTTAGT	TGTTCCTTTC	1620
1621	TATTCTCACT	CCGCTGAAAC	TGTTGAAAGT	TGTTTAGCAA	AACCCCATAC	AGAAAATTCA	1680
1681	TTTACTAACG	TCTGGAAAGA	CGACAAAACT	TTAGATCGTT	ACGCTAACTA	TGAGGGTTGT	1740

1741	CTGTGGAATG	CTACAGGCGT	TGTAGTTTGT	ACTGGTGACG	AAACTCAGTG	TTACGGTACA	1800
1801	TGGGTTCCTA	TTGGGCTTGC	TATCCCTGAA	AATGAGGGTG	GTGGCTCTGA	GGGTGGCGGT	1860
1861	TCTGAGGGTG	GCGGTTCTGA	GGGTGGCGGT	ACTAAACCTC	CTGAGTACGG	TGATACACCT	1920
1921	ATTCCGGGCT	ATACTTATAT	CAACCCTCTC	GACGGCACTT	ATCCGCCTGG	TACTGAGCAA	1980
1981	AACCCCGCTA	ATCCTAATCC	TTCTCTTGAG	GAGTCTCAGC	CTCTTAATAC	TTTCATGTTT	2040
2041	CAGAATAATA	GGTTCCGAAA	TAGGCAGGGG	GCATTAACTG	TTTATACGGG	CACTGTTACT	2100
2101	CAAGGCACTG	ACCCCGTTAA	AACTTATTAC	CAGTACACTC	CTGTATCATC	AAAAGCCATG	2160
2161	TATGACGCTT	ACTGGAACGG	TAAATTCAGA	GACTGCGCTT	TCCATTCTGG	CTTTAATGAA	2220
2221	GATCCATTCG	TTTGTGAATA	TCAAGGCCAA	TCGTCTGACC	TGCCTCAACC	TCCTGTCAAT	2280
2281	GCTGGCGGCG	GCTCTGGTGG	TGGTTCTGGT	GGCGGCTCTG	AGGGTGGTGG	CTCTGAGGGT	2340
2341	GGCGGTTCTG	AGGGTGGCGG	CTCTGAGGGA	GGCGGTTCCG	GTGGTGGCTC	TGGTTCCGGT	2400
2401	GATTTTGATT	ATGAAAAGAT	GGCAAACGCT	AATAAGGGGG	CTATGACCGA	AAATGCCGAT	2460
2461	GAAAACGCGC	TACAGTCTGA	CGCTAAAGGC	AAACTTGATT	CTGTCGCTAC	TGATTACGGT	2520
2521	GCTGCTATCG	ATGGTTTCAT	TGGTGACGTT	TCCGGCCTTG	CTAATGGTAA	TGGTGCTACT	2580
2581	GGTGATTTTG	CTGGCTCTAA	TTCCCAAATG	GCTCAAGTCG	GTGACGGTGA	TAATTCACCT	2640
2641	TTAATGAATA	ATTTCCGTCA	ATATTTACCT	TCCCTCCCTC	AATCGGTTGA	ATGTCGCCCT	2700
2701	TTTGTCTTTA	GCGCTGGTAA	ACCATATGAA	TTTTCTATTG	ATTGTGACAA	AATAAACTTA	2760
2761	TTCCGTGGTG	TCTTTGCGTT	TCTTTTATAT	GTTGCCACCT	TTATGTATGT	ATTTTCTACG	2820
2821	TTTGCTAACA	TACTGCGTAA	TAAGGAGTCT	TAATCATGCC	AGTTCTTTTG	GGTATTCCGT	2880
2881	TATTATTGCG	TTTCCTCGGT	TTCCTTCTGG	TAACTTTGTT	CGGCTATCTG	CTTACTTTTC	2940
2941	TTAAAAAGGG	CTTCGGTAAG	ATAGCTATTG	CTATTTCATT	GTTTCTTGCT	CTTATTATTG	3000
3001	GGCTTAACTC	AATTCTTGTG	GGTTATCTCT	CTGATATTAG	CGCTCAATTA	CCCTCTGACT	3060
3061	TTGTTCAGGG	TGTTCAGTTA	ATTCTCCCGT	CTAATGCGCT	TCCCTGTTTT	TATGTTATTC	3120
3121	TCTCTGTAAA	GGCTGCTATT	TTCATTTTTG	ACGTTAAACA	AAAAATCGTT	TCTTATTTGG	3180
3181	ATTGGGATAA	ATAATATGGC	TGTTTATTTT	GTAACTGGCA	AATTAGGCTC	TGGAAAGACG	3240
3241	CTCGTTAGCG	TTGGTAAGAT	TCAGGATAAA	ATTGTAGCTG	GGTGCAAAAT	AGCAACTAAT	3300
3301	CTTGATTTAA	GGCTTCAAAA	CCTCCCGCAA	GTCGGGAGGT	TCGCTAAAAC	GCCTCGCGTT	3360
3361	CTTAGAATAC	CGGATAAGCC	TTCTATATCT	GATTTGCTTG	CTATTGGGCG	CGGTAATGAT	3420
3421	TCCTACGATG	AAAATAAAA	CGGCTTGCTT	GTTCTCGATG	AGTGCGGTAC	TTGGTTTAAT	3480
3481	ACCCGTTCTT	GGAATGATAA	GGAAAGACAG	CCGATTATTG	ATTGGTTTCT	ACATGCTCGT	3540
3541	AAATTAGGAT	GGGATATTAT	TTTTCTTGTT	CAGGACTTAT	CTATTGTTGA	TAAACAGGCG	3600
3601	CGTTCTGCAT	TAGCTGAACA	TGTTGTTTAT	TGTCGTCGTC	TGGACAGAAT	TACTTTACCT	3660

FIG. 7B

3661 TTTGTCGGTA	СТТТАТАТТС	TCTTATTACT	GGCTCGAAAA	TGCCTCTGCC	TAAATTACAT	3720
3421 GTTGGCGTTG	TTAAATATGG	CGATTCTCAA	TTAAGCCCTA	CTGTTGAGCG	TTGGCTTTAT	3780
3781 ACTGGTAAGA	ATTTGTATAA	CGCATATGAT	ACTAAACAGG	CTTTTTCTAG	TAATTATGAT	3840
3841 TCCGGTGTTT	ATTCTTATTT	AACGCCTTAT	TTATCACACG	GTCGGTATTT	CAAACCATTA	3900
3901 AATTTAGGTC	AGAAGATGAA	GCTTACTAAA	ATATATTTGA	AAAAGTTTTC	ACGCGTTCTT	3960
3961 TGTCTTGCGA	TTGGATTTGC	ATCAGCATTT	ACATATAGTT	ATATAACCCA	ACCTAAGCCG	4020
4021 GAGGTTAAAA	AGGTAGTCTC	TCAGACCTAT	GATTTTGATA	AATTCACTAT	TGACTCTTCT	4080
4081 CAGCGTCTTA	ATCTAAGCTA	TCGCTATGTT	TTCAAGGATT	CTAAGGGAAA	ATTAATTAAT.	4140
4141 AGCGACGATT	TACAGAAGCA	AGGTTATTCA	CTCACATATA	TTGATTTATG	TACTGTTTCC	4200
4201 ATTAAAAAAG	GTAATTCAAA	TGAAATTGTT	AAATGTAATT	AATTTTGTTT	TCTTGATGTT	4260
4261 TGTTTCATCA	TCTTCTTTTG	CTCAGGTAAT	TGAAATGAAT	AATTCGCCTC	TGCGCGATTT	4320
4321 TGTAACTTGG	TATTCAAAGC	AATCAGGCGA	ATCCGTTATT	GTTTCTCCCG	ATGTAAAAGG	4380
4381 TACTGTTACT	GTATATTCAT	CTGACGTTAA	ACCTGAAAAT	CTACGCAATT	TCTTTATTTC	4440
4441 TGTTTTACGT	GCTAATAATT	TTGATATGGT	TGGTTCAATT	CCTTCCATAA	TTCAGAAGTA	4500
4501 TAATCCAAAC	AATCAGGATT	ATATTGATGA	ATTGCCATCA	TCTGATAATC	AGGAATATGA	4560
4561 TGATAATTCC	GCTCCTTCTG	GTGGTTTCTT	TGTTCCGCAA	AATGATAATG	TTACTCAAAC	4620
4621 TTTTAAAATT	AATAACGTTC	GGGCAAAGGA	TTTAATACGA	GTTGTCGAAT	TGTTTGTAAA	4680
4681 GTCTAATACT	TCTAAATCCT	CAAATGTATT	ATCTATTGAC	GGCTCTAATC	TATTAGTTGT	4740
4741 TAGTGCACCT	AAAGATATTT	TAGATAACCT	TCCTCAATTC	CTTTCTACTG	TTGATTTGCC	4800
4801 AACTGACCAG	ATATTGATTG	AGGGTTTGAT	ATTTGAGGTT	CAGCAAGGTG	ATGCTTTAGA	4860
4861 TTTTTCATTT	GCTGCTGGCT	CTCAGCGTGG	CACTGTTGCA	GGCGGTGTTA	ATACTGACCG	4920
4921 CCTCACCTCT	GTTTTATCTT	CTGCTGGTGG	TTCGTTCGGT	ATTTTTAATG	GCGATGTTTT	4980
4981 AGGGCTATCA	GTTCGCGCAT	TAAAGACTAA	TAGCCATTCA	AAAATATTGT	CTGTGCCACG	5040
5041 TATTCTTACG	CTTTCAGGTC	AGAAGGGTTC	TATCTCTGTT	GGCCAGAATG	TCCCTTTTAT	5100
5101 TACTGGTCGT	GTGACTGGTG	AATCTGCCAA	TGTAAATAAT	CCATTTCAGA	CGATTGAGCG	5160
5161 TCAAAATGTA	GGTATTTCCA	TGAGCGTTTT	TCCTGTTGCA	ATGGCTGGCG	GTAATATTGT	5220
5221 TCTGGATATT	ACCAGCAAGG	CCGATAGTTT	GAGTTCTTCT	ACTCAGGCAA	GTGATGTTAT	5280
5281 TACTAATCAA	AGAAGTATTG	CTACAACGGT	TAATTTGCGT	GATGGACAGA	CTCTTTTACT	5340
5341 CGGTGGCCTC	ACTGATTATA	AAAACACTTC	TCAAGATTCT	GGCGTACCGT	TCCTGTCTAA	5400
5401 AATCCCTTTA	ATCGGCCTCC	TGTTTAGCTC	CCGCTCTGAT	TCCAACGAGG	AAAGCACGTT	5460
5461 ATACGTGCTC	GTCAAAGCAA	CCATAGTACG	CGCCCTGTAG	CGGCGCATTA	AGCGCGGCGG	5520
5521 GTGTGGTGGT	TACGCGCAGC	GTGACCGCTA	CACTTGCCAG	CGCCCTAGCG	CCCGCTCCTT	5580

FIG. 7C

. 4 4 1	I 10	1 20		IG 7D	1 50	J 60	7445
	ACGTT	TTTATTGCTT	AATTTTGCTA	ATTCTTTGCC	TTGCCTGTAT (GATTTATTGG	7440
		AAAAGTATTA					
		TAAAATATAT					
		TGTCTCCGGC					
		CCTCTCCGGC					
		TTGCTCCAGA					
		AACCGGGGTA					
		GTTTACAATT					
		TTGĞTTAAAA					
		ATGTTGATGA				•	
		CGGTCAATCC					
		CAAACTGGCA					
		CGGTGCCGGA					
		CCCAACAGTT					
		AAAAAGTTTA					
		GGCTACGCTT					
		GGCGATGACC					
		CAGCTGCTCG					
		GCACTGGCAC					
		AAACCCTGGC					
		3 АТААСААТТТ					
		A GGCACCCAG					
		TCCCGACTGG					- 1
		r ACGCAAACCO				The second secon	
		G AAGGGCAATO					
		r CGCCTGCTG					
		G CTATTCTTT					
		C CACGTTCTT					
		A TGGTTCACG					
		C TTTAGGGTT					
558	1 TCGCTTTCT	T CCCTTCCTT	T CTCGCCACG	T TCGCCGGCT	r tccccgtca	GCTCTAAAT	5640

FIG. 7D

	1 1	0 1 2	20 1 3	0 1 4	0 I 5	0 , 6	^
			G AATTGATGO	C ACCTTTTCA	G CTCGCGCCC	C AAATGAAAA	r 60
					A ATGGTCAAA		
					A CTTCCAGAC		
					C AGCAATTAA		
					G TACTCTCTA		
					A TTAAAACGC	•	**
36	1 TCTTTCGGG	С ТТССТСТТА	A TCTTTTGA	T GCAATCCGC	T TTGCTTCTG	A CTATAATAĞ	420
42	L CAGGGTAAA	G ACCTGATTT	T TGATTTATG	G TCATTCTCG	T TTTCTGAACT	GTTTAAAGCA	480
481	TTTGAGGGG	G ATTCAATGA	A TATTTATGA	C GATTCCGCA	G TATTGGACGO	TATCCAGTCT	540
541	AAACATTTT	A CTATTACCC	C CTCTGGCAA	A ACTTCTTTT	G CAAAAGCCTC	TCGCTATTTT	600
301	GGTTTTTAT	C GTCGTCTGGT	T AAACGAGGG	TATGATAGT	G TTGCTCTTAC	TATGCCTCGT	660
661	AATTCCTTTT	r ggcgttatgi	T ATCTGCATT	GTTGAATGT	G GTATTCCTAA	ATCTCAACTG	720
721	ATGAATCTTT	CTACCTGTA	TAATGTTGT	CCGTTAGTT	GTTTTATTAA	CGTAGATTTT	780
781	TCTTCCCAAC	GTCCTGACTG	GTATAATGAC	CCAGTTCTT	AAATCGCATA	AGGTAATTCA	840
841	CAATGATTAA	AGTTGAAATT	AAACCATCTC	AAGCCCAATT	TACTACTCGT	TCTGGTGTTT	900
901	CTCGTCAGGG	CAAGCCTTAT	'TCACTGAATC	AGCAGCTTTG	TTACGTTGAT	TTGGGTAATG	960
961	AATATCCGGT	TCTTGTCAAG	ATTACTCTTG	ATGAAGGTCA	GCCAGCCTAT	GCGCCTGGTC	1020
1021	TGTACACCGT	TCATCTGTCC	TCTTTCAAAG	TTGGTCAGTT	CGGTTCCCTT	ATGATTGACC	1080
1081	GTCTGCGCCT	CGTTCCGGCT	AAGTAACATG	GAGCAGGTCG	CGGATTTCGA	CACAATTTAT	1140
1141	CAGGCGATGA	TACAAATCTC	CGTTGTACTT	TGTTTCGCGC	TTGGTATAAT	CGCTGGGGGT	1200
1201	CAAAGATGAG	TGTTTTAGTG	TATTCTTTCG	CCTCTTTCGT	TTTAGGTTGG	TGCCTTCGTA	1260
1261	GTGGCATTAC	GTATTTTACC	CGTTTAATGG	AAACTTCCTC	ATGAAAAAGT	CTTTAGTCCT	1320
1321	CAAAGCCTCT	GTAGCCGTTG	CTACCCTCGT	TCCGATGCTG	TCTTTCGCTG	CTGAGGGTGA	1380
1381	CGATCCCGCA	AAAGCGGCCT	TTAACTCCCT	GCAAGCCTCA	GCGACCGAAT	ATATCGGTTA	1440
1441	TGCGTGGGCG	ATGGTTGTTG	TCATTGTCGG	CGCAACTATC	GGTATCAAGC	TGTTTAAGAA	1500
1501	ATTCACCTCG	AAAGCAAGCT	GATAAACCGA	ТАСААТТААА	GGCTCCTTTT	GGAGCCTTTT	1560
1561	TTTTTGGAGA	TTTTCAACGT	GAAAAAATTA	TTATTCGCAA	TTCCTTTAGT	TGTTCCTTTC	1620
1621	TATTCTCACT	CCGCTGAAAC	TGTTGAAAGT	TGTTTAGCAA	AACCCCATAC	AGAAAATTCA	1680
1681	TTTACTAACG	TCTGGAAAGA	CGACAAAACT	TTAGATCGTT	ACGCTAACTA	TGAGGGTTGT	1740

FIG. 8A

1/	41 CTGTGGA	ATG CTACAGG	CGT TGTAGTTT	GT ACTGGTGA	CG AAACTCAG	TG TTACGGTA	CA 1800
18	01 TGGGTTC	CTA TTGGGCTT	GC TATCCCTG	AA AATGAGGG	rg gtggctct	GA GGGTGGCG	ST 1860
18	61 TCTGAGG	GTG GCGGTTC1	GA GGGTGGCG	GT ACTAAACCI	C CTGAGTAC	GG TGATACACO	T 1920
19:	21 ATTCCGG	GCT АТАСТТАТ	AT CAACCCTC	TC GACGGCACT	T ATCCGCCT	G TACTGAGC	A 1980
198	B1 AACCCCG	СТА АТССТААТ	CC TTCTCTTG	AG GAGTCTCAG	C CTCTTAATA	C TTTCATGTT	T 2040
204	11 CAGAATA	ATA GGTTCCGA	AA TAGGCAGG	GG GCATTAACT	G TTTATACGO	G CACTGTTAC	T 2100
210)1 CAAGGCA	CTG ACCCCGTT	AA AACTTATTA	AC CAGTACACT	C CTGTATCAT	C AAAAGCCAT	G 2160
216	TATGACG	CTT ACTGGAAC	GG TAAATTCAC	GA GACTGCGCT	Т ТССАТТСТБ	G CTTTAATGA	A 2220
222	1 GATCCAT	ICG TTTGTGAA'	TA TCAAGGCCA	A TCGTCTGAC	C TGCCTCAAC	C TCCTGTCAA	T 2280
228	1 GCTGGCGG	GCG GCTCTGGT	GG TGGTTCTGG	T GGCGGCTCT	G AGGGTGGTG	G CTCTGAGGG	T 2340
234	1 GGCGGTTC	CTG AGGGTGGC	GG CTCTGAGGG	A GGCGGTTCC	G GTGGTGGCT	C TGGTTCCGG	T 2400
240	1 GATTTTGA	ATT ATGAAAAGA	AT GGCAAACGC	T AATAAGGGG	G CTATGACCG	A AAATGCCGA	г 2460
246	1 GAAAACGC	GC TACAGTCT	SA CGCTAAAGG	C AAACTTGAT	r ctgtcgcta	C TGATTACGG	г 2520
252	1 GCTGCTAT	CG ATGGTTTCA	TGGTGACGT	T TCCGGCCTT	G CTAATGGTA	A TGGTGCTAC	г 2580
258	1 GGTGATTT	TG CTGGCTCTA	A TTCCCAAAT	G GCTCAAGTC	GTGACGGTG	A TAATTCACCT	r 2640
264	l TTAATGAA	TA ATTTCCGTC	A ATATTTACC	г тесетесете	AATCGGTTG#	ATGTCGCCCT	2700
		TA GCGCTGGTA					
		TG TCTTTGCGT					
		CA TACTGCGTA					
2881	TATTATTG	CG TTTCCTCGG	T TTCCTTCTG	TAACTTTGTT	CGGCTATCTG	CTTACTTTTC	2940
2941	TTAAAAAG	GG CTTCGGTAA	G ATAGCTATTO	CTATTTCATT	GTTTCTTGCT	CTTATTATTG	3000
3001	GGCTTAACT	C AATTCTTGT	G GGTTATCTCT	CTGATATTAG	CGCTCAATTA	CCCTCTGACT	3060
3061	TTGTTCAGG	GG TGTTCAGTT	ATTCTCCCGT	CTAATGCGCT	TCCCTGTTTT	TATGTTATTC	3120
3121	TCTCTGTAA	A GGCTGCTATT	TTCATTTTTG	ACGTTAAACA	AAAAATCGTT	TCTTATTTGG	3180
3181	ATTGGGATA	A ATAATATGGC	TGTTTATTTT	GTAACTGGCA	AATTAGGCTC	TGGAAAGACG	3240
3241	CTCGTTAGC	G TTGGTAAGAT	TCAGGATAAA	ATTGTAGCTG	GGTGCAAAAT	AGCAACTAAT	3300
3301	CTTGATTTA	A GGCTTCAAAA	CCTCCCGCAA	GTCGGGAGGT	TCGCTAAAAC	GCCTCGCGTT	3360
		C CGGATAAGCC					
3421	TCCTACGAT	G ААААТАААА	CGGCTTGCTT	GTTCTCGATG	AGTGCGGTAC	TTGGTTTAAT	3480
3481	ACCCGTTCT	T GGAATGATAA	GGAAAGACAG	CCGATTATTG	ATTGGTTTCT	ACATGCTCGT	3540
3541	AAATTAGGA'	T GGGATATTAT	TTTTCTTGTT	CAGGACTTAT	CTATTGTTGA	TAAACAGGCG	3600
3601	CGTTCTGCA	r tagctgaaca	TGTTGTTTAT	TGTCGTCGTC	TGGACAGAAT	ТАСТТТАССТ	3660

300	I IIIGICGG17	A CTTTATATTC	TCTTATTACT	GGCTCGAAA	TGCCTCTGCC	TAAATTACA	г 3720
372	1 GTTGGCGTTC	G TTAAATATGG	CGATTCTCAP	TTAAGCCCTA	CTGTTGAGCC	TTGGCTTTA	r 3780
378	1 ACTGGTAAGA	ATTTGTATAA	CGCATATGAT	CACTAAACAGO	G СТТТТТСТАС	TAATTATGA	г 3840
384	1 TCCGGTGTT1	ATTCTTATTT	AACGCCTTAT	TTATCACACO	GTCGGTATTT	CAAACCATT	A 3900
390	1 AATTTAGGTC	AGAAGATGAA	GCTTACTAAA	ATATATTTG	AAAAGTTTTC	ACGCGTTCT	r 3960
396	1 TGTCTTGCGA	TTGGATTTGC	ATCAGCATTT	' АСАТАТАСТІ	` ATATAACCCA	ACCTAAGCC	G 4020
402	l GAGGTTAAAA	AGGTAGTCTC	TCAGACCTAT	' GATTTTGATA	AATTCACTAT	TGACTCTTCT	4080
408	L CAGCGTCTTA	ATCTAAGCTA	TCGCTATGTT	TTCAAGGATT	' CTAAGGGAAA	ATTAATTAA	4140
414	AGCGACGATT	TACAGAAGCA	AGGTTATTCA	CTCACATATA	TTGATTTATG	TACTGTTTC	4200
4201	LATTAAAAAAG	GTAATTCAAA	TGAAATTGTT	AAATGTAATT	AATTTTGTTT	TCTTGATGTT	42,60
4261	TGTTTCATCA	ТСТТСТТТТС	CTCAGGTAAT	TGAAATGAAT	AATTCGCCTC	TGCGCGATTI	4320
4321	TGTAACTTGG	TATTCAAAGC	AATCAGGCGA	ATCCGTTATT	GTTTCTCCCG	ATGTAAAAGG	4380
4381	TACTGTTACT	GTATATTCAT	CTGACGTTAA	ACCTGAAAAT	CTACGCAATT	TCTTTATTTC	4440
4441	TGTTTTACGT	GCTAATAATT	TTGATATGGT	TGGTTCAATT	CCTTCCATAA	TTCAGAAGTA	4500
4501	TAATCCAAAC	AATCAGGATT	ATATTGATGA	ATTGCCATCA	TCTGATAATC	AGGAATATGA	4560
4561	TGATAATTCC	GCTCCTTCTG	GTGGTTTCTT	TGTTCCGCAA	AATGATAATG	TTACTCAAAC	4620
4621	TTTTAAAATT	AATAACGTTC	GGGCAAAGGA	TTTAATACGA	GTTGTCGAAT	TGTTTGTAAA	4680
4681	GTCTAATACT	TCTAAATCCT	CAAATGTATT	ATCTATTGAC	GGCTCTAATC	TATTAGTTGT	4740
4741	TAGTGCACCT	AAAGATATTT	TAGATAACCT	TCCTCAATTC	CTTTCTACTG	TTGATTTGCC	4800
4801	AACTGACCAG	ATATTGATTG	AGGGTTTGAT	ATTTGAGGTT	CAGCAAGGTG	ATGCTTTAGA	4860
4861	TTTTTCATTT	GCTGCTGGCT	CTCAGCGTGG	CACTGTTGCA	GGCGGTGTTA	ATACTGACCG	4920
1921	CCTCACCTCT	GTTTTATCTT	CTGCTGGTGG	TTCGTTCGGT	ATTTTTAATG	GCGATGTTTT	4980
1981	AGGGCTATCA	GTTCGCGCAT	TAAAGACTAA	TAGCCATTCA	AAAATATTGT	CTGTGCCACG	5040
041	TATTCTTACG	CTTTCAGGTC	AGAAGGGTTC	TATCTCTGTT	GGCCAGAATG	TCCCTTTTAT	5100
5101	TACTGGTCGT	GTGACTGGTG	AATCTGCCAA	TGTAAATAAT	CCATTTCAGA	CGATTGAGCG	5160
161	TCAAAATGTA	GGTATTTCCA	TGAGCGTTTT	TCCTGTTGCA	ATGGCTGGCG	GTAATATTGT	5220
221	TCTGGATATT	ACCAGCAAGG	CCGATAGTTT	GAGTTCTTCT	ACTCAGGCAA	GTGATGTTAT	5280
281	TACTAATCAA	AGAAGTATTG	CTACAACGGT	TAATTTGCGT	GATGGACAGA	СТСТТТТАСТ	5340
341	CGGTGGCCTC	ACTGATTATA	AAAACACTTC	TCAAGATTCT	GGCGTACCGT	TCCTGTCTAA	5400
401	AATCCCTTTA	ATCGGCCTCC	TGTTTAGCTC	CCGCTCTGAT	TCCAACGAGG	AAAGCACGTT	5460
461	ATACGTGCTC	GTCAAAGCAA	CCATAGTACG	CGCCCTGTAG	CGGCGCATTA	AGCGCGGCGG	5520
521	GTGTGGTGGT	TACGCGCAGC	GTGACCGCTA	CACTTGCCAG	CGCCCTAGCG	СССССТССТТ	5580

558	1 TCGCTTTCT	T CCCTTCCTT	T CTCGCCACG	T TCGCCGGCT	T TCCCCGTCA	A GCTCTAAAT	C 5640
564	1 GGGGGCTCC	C TTTAGGGTT	C CGATTTAGT	G CTTTACGGC	A CCTCGACCC	C AAAAAACTT	G 5700
570	1 ATTTGGGTG	A TGGTTCACG	T AGTGGGCCA	r cgccctgata	A GACGGTTTT	CGCCCTTTG	A 5760
576	1 CGTTGGAGT	C CACGTTCTT	T AATAGTGGA	C TCTTGTTCC/	AACTGGAAC	A ACACTCAAC	C 5820
		G CTATTCTTT					
588	1 ACAGGATTT	T CGCCTGCTG	GGCAAACCAG	G CGTGGACCGC	TTGCTGCAAC	TCTCTCAGG	5940
594	1 CCAGGCGGT	G AAGGGCAATO	AGCTGTTGCC	СССТСТСССТС	GTGAAAAGAA	AAACCACCC	r 6000
600	1 GGCGCCCAA	r acgcaaacco	CCTCTCCCC	GCGCTTGGCC	GATTCATTAA	TGCAGCTGGG	6060
606	l ACGACAGGT	T TCCCGACTG	AAAGCGGGCA	GTGAGCGCAA	CGCAATTAAT	' GTGAGTTAGO	6120
		GGCACCCCAG					
6181	TTGTGAGCGG	ATAACAATTT	CACACGCGTC	ACTTGGCACT	GGCCGTCGTT	TTACAACGTO	6240
6241	GTGACTGGGA	AAACCCTGGC	GTTACCCAAG	CTTTGTACAT	GGAGAAAATA	AAGTGAAACA	6300
6301	AAGCACTATT	GCACTGGCAC	TCTTACCGTT	ACTGTTTACC	CCTGTGGCAA	AAGCCTATGG	6360
6361	GGGGTTTATG	ACTTCTGAGG	GATCCGGAGC	TGAAGGCGAT	GACCCTGCTA	AGGCTGCATT	6420
6421	CAATAGTTTA	CAGGCAAGTG	CTACTGAGTA	CATTGGCTAC	GCTTGGGCTA	TGGTAGTAGT	6480
6481	TATAGTTGGT	GCTACCATAG	GGATTAAATT	ATTCAAAAAG	TTTACGAGCA	AGGCTTCTTA	6540
6541	AGCAATAGCG	AAGAGGCCCG	CACCGATCGC	CCTTCCCAAC	AGTTGCGCAG	CCTGAATGGC	6600
6601	GAATGGCGCT	TTGCCTGGTT	TCCGGCACCA	GAAGCGGTGC	CGGAAAGCTG	GCTGGAGTGC	6660
6661	GATCTTCCTG	AGGCCGATAC	GGTCGTCGTC	CCCTCAAACT	GGCAGATGCA	CGGTTACGAT	6720
		ACACCAACGT					
6781	GAGAATCCGA	CGGGTTGTTA	CTCGCTCACA	TTTAATGTTG	ATGAAAGCTG	GCTACAGGAA	6840
6841	GGCCAGACGC	GAATTATTTT	TGATGGCGTT	CCTATTGGTT	AAAAAATGAG	CTGATTTAAC	6900
5901	AAAAATTTAA	CGCGAATTTT	AACAAAATAT	TAACGTTTAC	ААТТТАААТА	TTTGCTTATA	6960
5961	CAATCTTCCT	GTTTTTGGGG	CTTTTCTGAT	TATCAACCGG	GGTACATATG	ATTGACATGC	7020
7021	TAGTTTTACG	ATTACCGTTC	ATCGATTCTC	TTGTTTGCTC	CAGACTCTCA	GGCAATGACC	7080
081	TGATAGCCTT	TGTAGATCTC	TCAAAAATAG	CTACCCTCTC	CGGCATTAAT	TTATCAGCTA	7140
141	GAACGGTTGA	ATATCATATT	GATGGTGATT	TGACTGTCTC	CGGCCTTTCT	CACCCTTTTG	7200
201	AATCTTTACC	TACACATTAC	TCAGGCATTG	САТТТААААТ	ATÄTGAGGGT	тсталалатт	7260
261	TTTATCCTTG	CGTTGAAATA	AAGGCTTCTC	CCGCAAAAGT	ATTACAGGGT	CATAATGTTT	7320
321	TTGGTACAAC	CGATTTAGCT	TTATGCTCTG	AGGCTTTATT	GCTTAATTTT	GCTAATTCTT	7380
381	TGCCTTGCCT	GTATGATTTA					7409
	1 10	1 20	I 30	1 40	I 50	1 60	

FIG. 8D

1	AATGCTACTA	I 20 CTATTAGTAG		I 40	L 50	1 60	60
		AGGTTATTGA					
		ATTGGGAATC					
		TAAAACATGT				÷.~	
		TGACCTCTTA			•		****
		CTTCCGGTCT					• •
		TTCCTCTTAA					
		ACCTGATTTT					
		ATTCAATGAA					
541	AAACATTTTA	CTATTACCCC	CTCTGGCAAA	ACTTCTTTTG	CAAAAGCCTC	TCGCTATTTT	600
601	GGTTTTTATC	GTCGTCTGGT	AAACGAGGGT	TATGATAGTG	TTGCTCTTAC	TATGCCTCGT	660
661	AATTCCTTTT	GGCGTTATGT	ATCTGCATTA	GTTGAATGTG	GTATTCCTAA	ATCTCAACTG	720
721	ATGAATCTTT	CTACCTGTAA	TAATGTTGTT	CCGTTAGTTC	GTTTTATTAA	CGTAGATTTT	780
781	TCTTCCCAAC	GTCCTGACTG	GTATAATGAG	CCAGTTCTTA	AAATCGCATA	AGGTAATTCA	840
841	CAATGATTAA	AGTTGAAATT	AAACCATCTC	AAGCCCAATT	TACTACTCGT	TCTGGTGTTT	900
901	CTCGTCAGGG	CAAGCCTTAT	TCACTGAATG	AGCAGCTTTG	TTACGTTGAT	TTGGGTAATG	960
961	AATATCCGGT	TCTTGTCAAG	ATTACTCTTG	ATGAAGGTCA	GCCAGCCTAT	GCGCCTGGTC	1020
1021	TGTACACCGT	TCATCTGTCC	TCTTTCAAAG	TTGGTCAGTT	CGGTTCCCTT	ATGATTGACC	1080
1081	GTCTGCGCCT	CGTTCCGGCT	AAGTAACATG	GAGCAGGTCG	CGGATTTCGA	CACAATTTAT	1140
1141	CAGGCGATGA	TACAAATCTC	CGTTGTACTT	TGTTTCGCGC	TTGGTATAAT	CGCTGGGGGT	1200
1201	CAAAGATGAG	TGTTTTAGTG	TATTCTTTCG	CCTCTTTCGT	TTTAGGTTGG	TGCCTTCGTA	1260
1261	GTGGCATTAC	GTATTTTACC	CGTTTAATGG	AAACTTCCTC	ATGAAAAAGT	CTTTAGTCCT	1320
1321	CAAAGCCTCT	GTAGCCGTTG	CTACCCTCGT	TCCGATGCTG	TCTTTCGCTG	CTGAGGGTGA	1380
1381	CGATCCCGCA	AAAGCGGCCT	TTAACTCCCT	GCAAGCCTCA	GCGACCGAAT	ATATCGGTTA	1440
1441	TGCGTGGGCG	ATGGTTGTTG	TCATTGTCGG	CGCAACTATC	GGTATCAAGC	TGTTTAAGAA	1500
1501	ATTCACCTCG	AAAGCAAGCT	GATAAACCGA	ТАСААТТААА	GGCTCCTTTT	GGAGCCTTTT	1560
1561	TTTTTGGAGA	TTTTCAACGT	GAAAAAATTA	TTATTCGCAA	TTCCTTTAGT	TGTTCCTTTC	1620
		CCGCTGAAAC					
		TCTGGAAAGA					
		CTACAGGCGT					

1801	TGGGTTCCTA	TTGGGCTTGC	TATCCCTGAA	AATGAGGGTG	GTGGCTCTGA	GGGTGGCGGT	1860
1861	TCTGAGGGTG	GCGGTTCTGA	GGGTGGCGGT	ACTAAACCTC	CTGAGTACGG	TGATACACCT	1920
1921	ATTCCGGGCT	ATACTTATAT	CAACCCTCTC	GACGGCACTT	ATCCGCCTGG	TACTGAGCAA	1980
1981	AACCCCGCTA	ATCCTAATCC	TTCTCTTGAG	GAGTCTCAGC	CTCTTAATAC	TTTCATGTTT	2040
2041	CAGAATAATA	GGTTCCGAAA	TAGGCAGGGG	GCATTAACTG	TTTATACGGG	CACTGTTACT	2100
2101	CAAGGCACTG	ACCCCGTTAA	AACTTATTAC	CAGTACACTC	CTGTATCATC	AAAAGCCATG	2160
2161	TATGACGCTT	ACTGGAACGG	TAAATTCAGA	GACTGCGCTT	TCCATTCTGG	CTTTAATGAA	2220
2221	GATCCATTCG	TTTGTGAATA	TCAAGGCCAA	TCGTCTGACC	TGCCTCAACC	TCCTGTCAAT	2280
2281	GCTGGCGGCG	GCTCTGGTGG	TGGTTCTGGT	GGCGGCTCTG	AGGGTGGTGG	CTCTGAGGGT	2340
2341	GGCGGTTCTG	AGGGTGGCGG	CTCTGAGGGA	GGCGGTTCCG	GTGGTGGCTC	TGGTTCCGGT	2400
2401	GATTTTGATT	ATGAAAAGAT	GGCAAACGCT	AATAAGGGGG	CTATGACCGA	AAATGCCGAT	2460
2461	GAAAACGCGC	TACAGTCTGA	CGCTAAAGGC	AAACTTGATT	CTGTCGCTAC	TGATTACGGT	2520
2521	GCTGCTATCG	ATGGTTTCAT	TGGTGACGTT	TCCGGCCTTG	CTAATGGTAA	TGGTGCTACT	2580
2581	GGTGATTTTG	CTGGCTCTAA	TTCCCAAATG	GCTCAAGTCG	GTGACGGTGA	TAATTCACCT	2640
2641	TTAATGAATA	ATTTCCGTCA	ATATTTACCT	TCCCTCCCTC	AATCGGTTGA	ATGTCGCCCT	2700
2701	TTTGTCTTTA	GCGCTGGTAA	ACCATATGAA	TTTTCTATTG	ATTGTGACAA	AATAAACTTA	2760
2761	TTCCGTGGTG	TCTTTGCGTT	TCTTTTATAT	GTTGCCACCT	TTATGTATGT	ATTTTCTACG	2820
2821	TTTGCTAACA	TACTGCGTAA	TAAGGAGTCT	TAATCATGCC	AGTTCTTTTG	GGTATTCCGT	2880
2881	TATTATTGCG	TTTCCTCGGT	TTCCTTCTGG	TAACTTTGTT	CGGCTATCTG	CTTACTTTTC	2940
2941	TTAAAAAGGG	CTTCGGTAAG	ATAGCTATTG	CTATTTCATT	GTTTCTTGCT	CTTATTATTG	3000
3001	GGCTTAACTC	AATTCTTGTG	GGTTATCTCT	CTGATATTAG	CGCTCAATTA	CCCTCTGACT	3060
3061	TTGTTCAGGG	TGTTCAGTTA	ATTCTCCCGT	CTAATGCGCT	TCCCTGTTTT	TATGTTATTC	3120
3121	TCTCTGTAAA	GGCTGCTATT	TTCATTTTTG	ACGTTAAACA	AAAAATCGTT	TCTTATTTGG	3180
3181	ATTGGGATAA	ATAATATGGC	TGTTTATTTT	GTAACTGGCA	AATTAGGCTC	TGGAAAGACG	3240
3241	CTCGTTAGCG	TTGGTAAGAT	TCAGGATAAA	ATTGTAGCTG	GGTGCAAAAT	AGCAACTAAT	3300
3301	CTTGATTTAA	GGCTTCAAAA	CCTCCCGCAA	GTCGGGAGGT	TCGCTAAAAC	GCCTCGCGTT	3360
3361	CTTAGAATAC	CGGATAAGCC	TTCTATATCT	GATTTGCTTG	CTATTGGGCG	CGGTAATGAT	3420
3421	TCCTACGATG	AAAATAAAA	CGGCTTGCTT	GTTCTCGATG	AGTGCGGTAC	TTGGTTTAAT	3480
3481	ACCCGTTCTT	GGAATGATAA	GGAAAGACAG	CCGATTATTG	ATTGGTTTCT	ACATGCTCGT	3540
3541	AAATTAGGAT	GGGATATTAT	CTTCCTTGTT	CAGGACTTAT	CTATTGTTGA	TAAACAGGCG	3600
3601	CGTTCTGCAT	TAGCTGAACA	TGTTGTTTAT	TGTCGTCGTC	TGGACAGAAT	TACTTTACCT	3660
3661	TTTGTCGGTA	СТТТАТАТТС	TCTTATTACT	GGCTCGAAAA	TGCCTCTGCC	TAAATTACAT	3720

FIG. 9B

3721	1 GTTGGCGTTC	TTAAATATGO	G CGATTCTCAA	TTAAGCCCTA	CTGTTGAGCG	TTGGCTTTAT	3780
3781	l ACTGGTAAGA	ATTTGTATA	CGCATATGAT	' ACTAAACAGG	CTTTTTCTAG	TAATTATGAT	3840
3841	TCCGGTGTTT	ATTCTTATT1	AACGCCTTAT	TTATCACACG	GTCGGTATTT	САААССАТТА	3900
3901	AATTTAGGTO	AGAAGATGAA	GCTTACTAAA	ATATATTTGA	AAAAGTTTTC	ACGCGTTCTT	<i>[</i> 3960
3961	TGTCTTGCGA	TTGGATTTGC	ATCAGCATTT	ACATATAGTT	ATATAACCCA	ACCTAAGCCG	4020
4021	. GAGGTTAAAA	AGGTAGTCTC	TCAGACCTAT	GATTTTGATA	AATTCACTAT	TGACTCTTCT	4080
4081	CAGCGTCTTA	ATCTAAGCTA	TCGCTATGTT	TTCAAGGATT	CTAAGGGAAA	ATTAATTAAT	4140
4141	AGCGACGATT	TACAGAAGCA	AGGTTATTCA	СТСАСАТАТА	TTGATTTATG	TACTGTTTCC	4200
4201	ATTAAAAAGG	TAATTCAAAT	GAAATTGTTA	AATGTAATTA	ATTTTGTTTT	CTTGATGTTT	4260
4261	GTTTCATCAT	CTTCTTTTGC	TCAGGTAATT	GAAATGAATA	ATTCGCCTCT	GCGCGATTTT	4320
4321	GTAACTTGGT	ATTCAAAGCA	ATCAGGCGAA	TCCGTTATTG	TTTCTCCCGA	TGTAAAAGGT	4380
4381	ACTGTTACTG	TATATTCATC	TGACGTTAAA	CCTGAAAATC	TACGCAATTT	СТТТАТТТСТ	4440
4441	GTTTTACGTG	CTAATAATTT	TGATATGGTT	GGTTCAATTC	CTTCCATTAT	TTAGAAGTAT	4500
4501	AATCCAAACA	ATCAGGATTA	TATTGATGAA	TTGCCATCAT	CTGATAATCA	GGAATATGAT	4560
4561	GATAATTCCG	CTCCTTCTGG	TGGTTTCTTT	GTTCCGCAAA	ATGATAATGT	TACTCAAACT	4620
4621	TTTAAAATTA	ATAACGTTCG	GGCAAAGGAT	TTAATACGAG	TTGTCGAATT	GTTTGTAAAG	4680
4681	TCTAATACTT	CTAAATCCTC	AAATGTATTA	TCTATTGACG	GCTCTAATCT	ATTAGTTGTT	4740
4741	AGTGCACCTA	AAGATATTTT	AGATAACCTT	CCTCAATTCC	TTTCTACTGT	TGATTTGCCA	4800
4801	ACTGACCAGA	TATTGATTGA	GGGTTTGATA	TTTGAGGTTC	AGCAAGGTGA	TGCTTTAGAT	4860
4861	TTTTCATTTG	CTGCTGGCTC	TCAGCGTGGC	ACTGTTGCAG	GCGGTGTTAA	TACTGACCGC	4920
4921	CTCACCTCTG	TTTTATCTTC	TGCTGGTGGT	TCGTTCGGTA	TTTTTAATGG	CGATGTTTTA	4980
4981	GGGCTATCAG	TTCGCGCATT	AAAGACTAAT	AGCCATTCAA	AAATATTGTC	TGTGCCACGT	5040
5041	ATTCTTACGC	TTTCAGGTCA	GAAGGGTTCT	ATCTCTGTTG	GCCAGAATGT	CCCTTTTATT	5100
5101	ACTGGTCGTG	TGACTGGTGA	ATCTGCCAAT	GTAAATAATC	CATTTCAGAC	GATTGAGCGT	5160
5161	CAAAATGTAG	GTATTTCCAT	GAGCGTTTTT	CCTGTTGCAA	TGGCTGGCGG	TAATATTGTT	5220
5221	CTGGATATTA	CCAGCAAGGC	CGATAGTTTG	AGTTCTTCTA	CTCAGGCAAG	TGATGTTATT	5280
5281	ACTAATCAAA	GAAGTATTGC	TACAACGGTT	AATTTGCGTG	ATGGACAGAC	TCTTTTACTC	5340
5341	GGTGGCCTCA	CTGATTATAA	AAACACTTCT	CAAGATTCTG	GCGTACCGTT	CCTGTCTAAA	5400
5401	ATCCCTTTAA	TCGGCCTCCT	GTTTAGCTCC	CGCTCTGATT	CCAACGAGGA	AAGCACGTTA	5460
5461	TACGTGCTCG	TCAAAGCAAC	CATAGTACGC	GCCCTGTAGC	GGCGCATTAA	GCGCGGCGGG	5520
5521	тстсстсстт	ACGCGCAGCG	TGACCGCTAC	ACTTGCCAGC	GCCCTAGCGC	CCGCTCCTTT	5580
5581	СССТТТСТТС	ССТТССТТТС	TCGCCACGTT	CGCCGGCTTT	CCCCGTCAAG	CTCTAAATCG	5640

FIG. 9C

5641	GGGGCTCCCT	TTAGGGTTCC	GATTTAGTGC	TTTACGGCAC	CTCGACCCCA	AAAAACTTGA	5700
5701	TTTGGGTGAT	GGTTCACGTA	GTGGGCCATC	GCCCTGATAG	ACGGTTTTTC	GCCCTTTGAC	5,760
5761	GTTGGAGTCC	ACGTTCTTTA	ATAGTGGACT	CTTGTTCCAA	ACTGGAACAA	CACTCAACCC	5820
5821	TATCTCGGGC	TATTCTTTTG	ATTTATAAGG	GATTTTGCCG	ATTTCGGAAC	CACCATCAAA	5880
5881	CAGGATTTTC	GCCTGCTGGG	GCAAACCAGC	GTGGACCGCT	TGCTGCAACT	CTCTCAGGGC	5940
5941	CAGGCGGTGA	AGGGCAATCA	GCTGTTGCCC	GTCTCGCTGG	TGAAAAGAAA	AACCACCCTG	6000
6001	GCGCCCAATA	CGCAAACCGC	CTCTCCCCGC	GCGTTGGCCG	ATTCATTAAT	GCAGCTGGCA	6060
6061	CGACAGGTTT	CCCGACTGGA	AAGCGGGCAG	TGAGCGCAAC	GCAATTAATG	TGAGTTAGCT	6120
6121	CACTCATTAG	GCACCCCAGG	CTTTACACTT	TATGCTTCCG	GCTCGTATGT	TGTGTGGAAT	6180
6181	TGTGAGCGGA	TAACAATTTC	ACACAGGAAA	CAGCTATGAC	CAGGATGTAC	GAATTCGCAG	6240
6241	GTAGGAGAGC	TCGGCGGATC	CGAGGCTGAA	GGCGATGACC	CTGCTAAGGC	TGCATTCAAT	6300
6301	AGTTTACAGG	CAAGTGCTAC	TGAGTACATT	GGCTACGCTT	GGGCTATGGT	AGTAGTTATA	6360
6361	GTTGGTGCTA	CCATAGGGAT	TAAATTATTC	AAAAAGTTTA	CGAGCAAGGC	TTCTTAACCA	6420
6421	GCTGGCGTAA	TAGCGAAGAG	GCCCGCACCG	ATCGCCCTTC	CCAACAGTTG	CGCAGCCTGA	6480
6481	ATGGCGAATG	GCGCTTTGCC	TGGTTTCCGG	CACCAGAAGC	GGTGCCGGAA	AGCTGGCTGG	6540
6541	AGTGCGATCT	TCCTGAGGCC	GATACGGTCG	TCGTCCCCTC	AAACTGGCAG	ATGCACGGTT	6600
6601	ACGATGCGCC	CATCTACACC	AACGTAACCT	ATCCCATTAC	GGTCAATCCG	CCGTTTGTTC	6660
6661	CCACGGAGAA	TCCGACGGGT	TGTTACTCGC	TCACATTTAA	TGTTGATGAA	AGCTGGCTAC	6720
6721	AGGAAGGCCA	GACGCGAATT	ATTTTTGATG	GCGTTCCTAT	TGGTTAAAAA	ATGAGCTGAT	6780
6781	TTAACAAAAA	TTTAACGCGA	ATTTTAACAA	AATATTAACG	TTTACAATTT	AAATATTTGC	6840
6841	TTATACAATC	TTCCTGTTTT	TGGGGCTTTT	CTGATTATCA	ACCGGGGTAC	ATATGATTGA	6900
6901	CATGCTAGTT	TTACGATTAC	CGTTCATCGA	TTCTCTTGTT	TGCTCCAGAC	TCTCAGGCAA	6960
6961	TGACCTGATA	GCCTTTGTAG	ATCTCTCAAA	AATAGCTACC	CTCTCCGGCA	TTAATTTATC	7020
7021	AGCTAGAACG	GTTGAATATC	ATATTGATGG	TGATTTGACT	GTCTCCGGCC	TTTCTCACCC	7080
7081	TTTTGAATCT	TTACCTACAC	ATTACTCAGG	CATTGCATTT	AAAATATATG	AGGGTTCTAA	7140
7141	AAATTTTTAT	CCTTGCGTTG	AAATAAAGGC	TTCTCCCGCA	AAAGTATTAC	AGGGTCATAA	7200
7201	TGTTTTTGGT	ACAACCGATT	TAGCTTTATG	CTCTGAGGCT	TTATTGCTTA	ATTTTGCTAA	7260
7261	TTCTTTGCCT	TGCCTGTATG	ATTTATTGGA	CGTT	1 50	ı 60	7294
	, 10	, 20	, 50	0	. 50	. 30	

FIG. 9D

1	AATGCTACTA	CTATTAGTAG	AATTGATGCC	I 40 ACCTTTTCAG	CTCGCGCCCC	I 60 AAATGAAAAT	60
		AGGTTATTGA					
		ATTGGGAATC				•	
		TAAAACATGT				. 4 *	
		TGACCTCTTA				. •	
		CTTCCGGTCT					•
		TTCCTCTTAA					
		ACCTGATTTT					
481	TTTGAGGGGG	ATTCAATGAA	TATTTATGAC	GATTCCGCAG	TATTGGACGC	TATCCAGTCT	540
541	AAACATTTTA	CTATTACCCC	CTCTGGCAAA	ACTTCTTTTG	CAAAAGCCTC	TCGCTATTTT	600
601	GGTTTTTATC	GTCGTCTGGT	AAACGAGGGT	TATGATAGTG	TTGCTCTTAC	TATGCCTCGT	660
661	AATTCCTTTT	GGCGTTATGT	ATCTGCATTA	GTTGAATGTG	GTATTCCTAA	ATCTCAACTG	720
721	ATGAATCTTT	CTACCTGTAA	TAATGTTGTT	CCGTTAGTTC	GTTTTATTAA	CGTAGATTTT	780
781	TCTTCCCAAC	GTCCTGACTG	GTATAATGAG	CCAGTTCTTA	AAATCGCATA	AGGTAATTCA	840
841	CAATGATTAA	AGTTGAAATT	AAACCATCTC	AAGCCCAATT	TACTACTCGT	TCTGGTGTTT	900
901	CTCGTCAGGG	CAAGCCTTAT	TCACTGAATG	AGCAGCTTTG	TTACGTTGAT	TTGGGTAATG	960
961	AATATCCGGT	TCTTGTCAAG	ATTACTCTTG	ATGAAGGTCA	GCCAGCCTAT	GCGCCTGGTC	1020
1021	TGTACACCGT	TCATCTGTCC	TCTTTCAAAG	TTGGTCAGTT	CGGTTCCCTT	ATGATTGACC	1080
1081	GTCTGCGCCT	CGTTCCGGCT	AAGTAACATG	GAGCAGGTCG	CGGATTTCGA	CACAATTTAT	1140
1141	CAGGCGATGA	TACAAATCTC	CGTTGTACTT	TGTTTCGCGC	TTGGTATAAT	CGCTGGGGGT	1200
1201	CAAAGATGAG	TGTTTTAGTG	TATTCTTTCG	CCTCTTTCGT	TTTAGGTTGG	TGCCTTCGTA	1260
1261	GTGGCATTAC	GTATTTTACC	CGTTTAATGG	AAACTTCCTC	ATGAAAAAGT	CTTTAGTCCT	1320
1321	CAAAGCCTCT	GTAGCCGTTG	CTACCCTCGT	TCCGATGCTG	TCTTTCGCTG	CTGAGGGTGA	1380
1381	CGATCCCGCA	AAAGCGGCCT	TTAACTCCCT	GCAAGCCTCA	GCGACCGAAT	ATATCGGTTA	1440
1441	TGCGTGGGCG	ATGGTTGTTG	TCATTGTCGG	CGCAACTATC	GGTATCAAGC	TGTTTAAGAA	1500
1501	ATTCACCTCG	AAAGCAAGCT	GATAAACCGA	тасааттааа	GGCTCCTTTT	GGAGCCTTTT	1560
1561	TTTTTGGAGA	TTTTCAACGT	GAAAAAATTA	TTATTCGCAA	TTCCTTTAGT	тсттсстттс	1620
1621	TATTCTCACT	CCGCTGAAAC	TGTTGAAAGT	TGTTTAGCAA	AACCCCATAC	AGAAAATTCA	1680
1681	TTTACTAACG	TCTGGAAAGA	CGACAAAACT	TTAGATCGTT	ACGCTAACTA	TGAGGGTTGT	1740

FIG. 10A

174	11 CTGTGGAAT	G CTACAGGCG	T TGTAGTTTG	r actggtgac	AAACTCAGTO	TTACGGTAC	A 1800
180	1 TGGGTTCCT	A TTGGGCTTG	C TATCCCTGA	A AATGAGGGT	GTGGCTCTG#	GGGTGGCGG	r 1860
186	1 TCTGAGGGT	G GCGGTTCTG	A GGGTGGCGG	г астааассто	CTGAGTACGG	TGATACAÇC	r 1920
192	1 ATTCCGGGC	Т АТАСТТАТА	T CAACCCTCTC	GACGGCACTI	ATCCGCCTGG	TACTGAGCA	1980
198	1 AACCCCGCT	A ATCCTAATC	C TTCTCTTGAC	GAGTCTCAGO	CTCTTAATAC	TTTCATGTT	2040
204	1 CAGAATAAT	A GGTTCCGAA	A TAGGCAGGGG	GCATTAACTG	TTTATACGGG	CACTGTTACT	2100
210	1 CAAGGCACT	G ACCCCGTTAL	A AACTTATTAC	CAGTACACTO	CTGTATCATC	AAAAGCCATG	2160
216	1 TATGACGCT	T ACTGGAACGO	G TAAATTCAGA	GACTGCGCTT	TCCATTCTGG	CTTTAATGAA	2220
222	1 GATCCATTC	G TTTGTGAAT?	A TCAAGGCCAA	TCGTCTGACC	TGCCTCAACC	TCCTGTCAAT	2280
228	1 GCTGGCGGC	G GCTCTGGTG	G TGGTTCTGGT	GGCGGCTCTG	AGGGTGGTGG	CTCTGAGGGT	2340
234	1 GGCGGTTCT	G AGGGTGGCGG	CTCTGAGGGA	GGCGGTTCCG	GTGGTGGCTC	TGGTTCCGGT	2400
240	1 GATTTTGAT	T ATGAAAAGAT	GGCAAACGCT	AATAAGGGGG	CTATGACCGA	AAATGCCGAT	2460
246	1 GAAAACGCGG	C TACAGTCTGA	CGCTAAAGGC	AAACTTGATT	CTGTCGCTAC	TGATTACGGT	2520
2521	L GCTGCTATCO	ATGGTTTCAT	TGGTGACGTT	TCCGGCCTTG	CTAATGGTAA	TGGTGCTACT	2580
2581	L GGTGATTTT	CTGGCTCTAA	TTCCCAAATG	GCTCAAGTCG	GTGACGGTGA	TAATTCACCT	2640
2641	TTAATGAATA	ATTTCCGTCA	ATATTTACCT	TCCCTCCCTC	AATCGGTTGA	ATGTCGCCCT	2700
2701	TTTGTCTTTA	GCGCTGGTAA	ACCATATGAA	TTTTCTATTG	ATTGTGACAA	ААТАААСТТА	2760
2761	TTCCGTGGTG	TCTTTGCGTT	TCTTTTATAT	GTTGCCACCT	TTATGTATGT	ATTTTCTACG	2820
2821	TTTGCTAACA	TACTGCGTAA	TAAGGAGTCT	TAATCATGCC	AGTTCTTTTG	GGTATTCCGT	2880
2881	TATTATTGCG	TTTCCTCGGT	TTCCTTCTGG	TAACTTTGTT	CGGCTATCTG	CTTACTTTTC	2940
2941	TTAAAAAGGG	CTTCGGTAAG	ATAGCTATTG	CTATTTCATT	GTTTCTTGCT	CTTATTATTG	3000
3001	GGCTTAACTC	AATTCTTGTG	GGTTATCTCT	CTGATATTAG	CGCTCAATTA	CCCTCTGACT	3060
3061	TTGTTCAGGG	TGTTCAGTTA	ATTCTCCCGT	CTAATGCGCT	TCCCTGTTTT	TATGTTATTC	3120
3121	TCTCTGTAAA	GGCTGCTATT	TTCATTTTTG	ACGTTAAACA	AAAAATCGTT	TCTTATTTGG	3180
3181	ATTGGGATAA	ATAATATGGC	TGTTTATTTT	GTAACTGGCA	AATTAGGCTC	TGGAAAGACG	3240
3241	CTCGTTAGCG	TTGGTAAGAT	TTAGGATAAA	ATTGTAGCTG	GGTGCAAAAT	AGCAACTAAT	3300
3301	CTTGATTTAA	GGCTTCAAAA	CCTCCCGCAA	GTCGGGAGGT	TCGCTAAAAC	GCCTCGCGTT	3360
3361	CTTAGAATAC	CGGATAAGCC	TTCTATATCT	GATTTGCTTG	CTATTGGGCG	CGGTAATGAT	3420
3421	TCCTACGATG	ААААТАААА	CGGCTTGCTT	GTTCTCGATG	AGTGCGGTAC	TTGGTTTAAT	3480
3481	ACCCGTTCTT	GGAATGATAA	GGAAAGACAG	CCGATTATTG	ATTGGTTTCT	ACATGCTCGT	3540
3541	AAATTAGGAT	GGGATATTAT	TTTTCTTGTT	CAGGACTTAT	CTATTGTTGA '	raaacaggcg	3600
3601	CGTTCTGCAT	TAGCTGAACA	TGTTGTTTAT	TGTCGTCGTC	TGGACAGAAT '	ГАСТТТАССТ	3660

FIG. 10B

36	61	TTTGTCGGTA	CTTTATATTC	TCTTATTACT	GGCTCGAAAA	TGCCTCTGCC	TAAATTACAT	3720
37	21	GTTGGCGTTG	TTAAATATGG	CGATTCTCAA	TTAAGCCCTA	CTGTTGAGCG	TTGGCTTTAT	3780
37	81	ACTGGTAAGA	ATTTGTATAA	CGCATATGAT	ACTAAACAGG	СТТТТТСТАС	TAATTATGAT	3840
38	41	TCCGGTGTTT	ATTCTTATTT	AACGCCTTAT	TTATCACACG	GTCGGTATTT	САААССАТТА	3900
39	01	AATTTAGGTC	AGAAGATGAA	GCTTACTAAA	ATATATTTGA	AAAAGTTTTC	ACGCGTTCTT	3960
39	61	TGTCTTGCGA	TTGGATTTGC	ATCAGCATTT	ACATATAGTT	АТАТААСССА	ACCTAAGCCG	4020
40	21	GAGGTTAAAA	AGGTAGTCTC	TCAGACCTAT	GATTTTGATA	AATTCACTAT	TGACTCTTCT	4080
40	81	CAGCGTCTTA	ATCTAAGCTA	TCGCTATGTT	TTCAAGGATT	CTAAGGGAAA	ATTAATTAAT	4140
41	41	AGCGACGATT	TACAGAAGCA	AGGTTATTCA	CTCACATATA	TTGATTTATG	TACTGTTTCC	4200
42	01	ATTAAAAAAG	GTAATTCAAA	TGAAATTGTT	AAATGTAATT	AATTTTGTTT	TCTTGATGTT	4260
42	61	TGTTTCATCA	TCTTCTTTTG	CTCAGGTAAT	TGAAATGAAT	AATTCGCCTC	TGCGCGATTT	4320
43	21	TGTAACTTGG	TATTCAAAGC	AATCAGGCGA	ATCCGTTATT	GTTTCTCCCG	ATGTAAAAGG	4380
438	81	TACTGTTACT	GTATATTCAT	CTGACGTTAA	ACCTGAAAAT	CTACGCAATT	TCTTTATTTC	4440
44	41	TGTTTTACGT	GCTAATAATT	TTGATATGGT	TGGTTCAATT	CCTTCCATAA	TTCAGAAGTA	4500
450	01	TAATCCAAAC	AATCAGGATT	ATATTGATGA	ATTGCCATCA	TCTGATAATC	AGGAATATGA	4560
45	61	TGATAATTCC	GCTCCTTCTG	GTGGTTTCTT	TGTTCCGCAA	AATGATAATG	TTACTCAAAC	4620
462	21	TTTTAAAATT	AATAACGTTC	GGGCAAAGGA	TTTAATACGA	GTTGTCGAAT	TGTTTGTAAA	4680
468	31	GTCTAATACT	TCTAAATCCT	CAAATGTATT	ATCTATTGAC	GGCTCTAATC	TATTAGTTGT	4740
474	11	TAGTGCACCT	AAAGATATTT	TAGATAACCT	TCCTCAATTC	CTTTCTACTG	TTGATTTGCC	4800
480)1	AACTGACCAG	ATATTGATTG	AGGGTTTGAT	ATTTGAGGTT	CAGCAAGGTG	ATGCTTTAGA	4860
486	51	TTTTTCATTT	GCTGCTGGCT	CTCAGCGTGG	CACTGTTGCA	GGCGGTGTTA	ATACTGACCG	4920
492	21	CCTCACCTCT	GTTTTATCTT	CTGCTGGTGG	TTCGTTCGGT	ATTTTTAATG	GCGATGTTTT	4980
498	31	AGGGCTATCA	GTTCGCGCAT	TAAAGACTAA	TAGCCATTCA	AAAATATTGT	CTGTGCCACG	5040
504	1	TATTCTTACG	CTTTCAGGTC	AGAAGGGTTC	TATCTCTGTT	GGCCAGAATG	TCCCTTTTAT	5100
510	1 '	TACTGGTCGT	GTGACTGGTG	AATCTGCCAA	TGTAAATAAT	CCATTTCAGA	CGATTGAGCG	5160
516	1 '	TCAAAATGTA	GGTATTTCCA	TGAGCGTTTT	TCCTGTTGCA	ATGGCTGGCG	GTAATATTGT	5220
522	1 '	TCTGGATATT	ACCAGCAAGG	CCGATAGTTT	GAGTTCTTCT	ACTCAGGCAA	GTGATGTTAT	5280
528	1 '	ТАСТААТСАА	AGAAGTATTG	CTACAACGGT	TAATTTGCGT	GATGGACAGA	CTCTTTTACT	5340
534	1 (CGGTGGCCTC	ACTGATTATA	AAAACACTTC	TCAAGATTCT	GGCGTACCGT	TCCTGTCTAA	5400
540	1 2	AATCCCTTTA	ATCGGCCTCC	TGTTTAGCTC	CCGCTCTGAT	TCCAACGAGG	AAAGCACGTT	5460
546	1 /	ATACGTGCTC	GTCAAAGCAA	CCATAGTACG	CGCCCTGTAG	CGGCGCATTA	AGCGCGGCGG	5520
552	1 (GTGTGGTGGT	TACGCGCAGC	GTGACCGCTA	CACTTGCCAG	CGCCCTAGCG	CCCGCTCCTT	5580

FIG. 10C

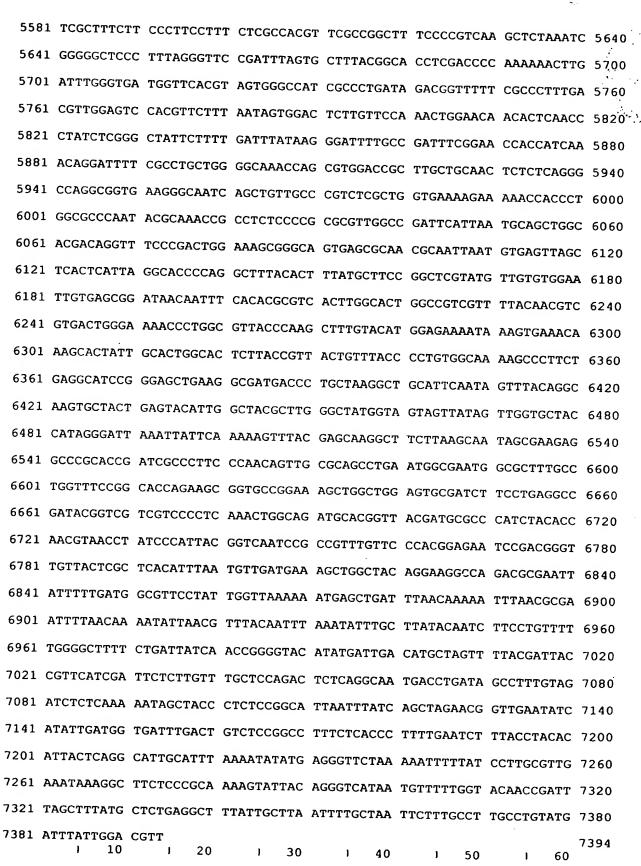


FIG. 10D